

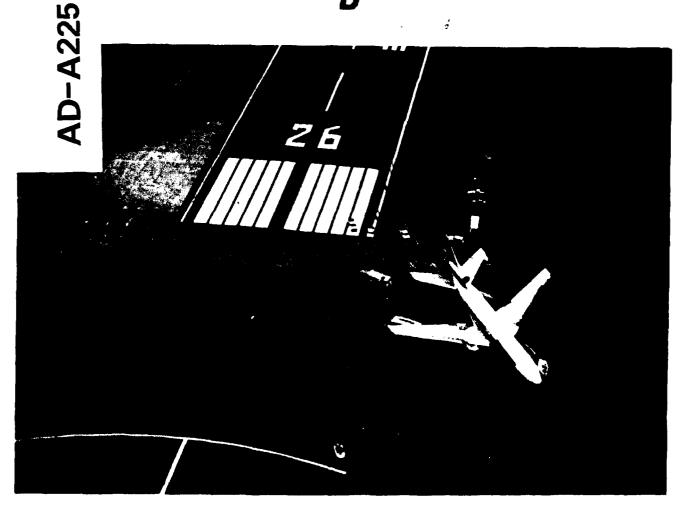
U.S. Department of Transportation

Federal Aviation Administration

Office of Safety Oversight

Location of Commercial Aircraft Accidents/Incidents Relative to Runways





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16. Abstract

The location of an aircraft involved in an accident or incident may be documented by the National Transportation Safety Board and the Federal Aviation Administration during the course of their investigation. When available, it will appear in the record of the individual investigation. However, this location information is not available from either of these agencies in a summary form.

This study was undertaken to compile in one document the location relative to the runway of these accidents/incidents for aircraft involved in commercial air transportation in the United States. The study examined accidents/incidents that occurred from 1978 to 1987. Since it is intended that this information will be used mainly to make decisions on individual airports, no attempt was made to reach conclusions or make recommendations based on the data.

The accidents/incidents used for this study were categorized as undershoots, landings off the runway, veeroffs, overruns, and other in the vicinity of the airport. The aircraft location was recorded in terms of the distance along the runway centerline or extended centerline (X distance) and the perpendicular distance from the centerline or extended centerline (Y distance).

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EXECUTIVE SUMMARY

Information on the location of aircraft accidents/incidents in the airport vicinity in relation to runways has many applications. It is useful to persons involved in the planning and design of an airport and its surrounding areas, as well as those responsible for day-to-day airport operations.

The location of an aircraft involved in an accident or incident may be documented by the National Transportation Safety Board and the Federal Aviation Administration during the course of their investigation. When available, it will appear in the record of the individual investigation. However, this location information is not available from either of these agencies in a summary form.

This study was undertaken to compile in one document the location relative to the runway of these accidents/incidents for aircraft involved in commercial air transportation in the United States. Since it is intended that this information will be used mainly to make decisions on individual airports, no attempt was made to reach conclusions or make recommendations based on the data.

The National Transportation Safety Board's dockets of commercial aircraft accidents/incidents that occurred from 1978 to 1987 were reviewed to determine the aircraft location. This review was limited to aircraft operating under Part 121, Part 129, and Part 135 of the Federal Aviation Regulations; only scheduled operations were examined under Part 135.

The accidents/incidents used for this study were categorized as undershoots, landings off the runway, veeroffs, overruns, and other in the vicinity of the airport. The aircraft location was recorded in terms of the distance along the runway centerline or extended centerline (X distance) and the perpendicular distance from the centerline or extended centerline (Y distance.)

Appendix 1 provides an explanation of the methodology used to identify applicable accidents/incidents and to determine the aircraft location. Appendix 2 provides a listing of all the accidents/incidents included in this study, while additional appendices list the accidents/incidents in each category.

FOREWORD

Over 500 accident/incident records were reviewed by the author as part of this study. Needless to say, the author received assistance from several people in this undertaking, and would like to take this opportunity to thank them and recognize their efforts.

First, Stan Smith and Dennis Cusack of the National Transportation Safety Board (NTSB) were very helpful in explaining the three computer data systems on which the accident/incident information is maintained and in setting criteria by which to identify records in these databases that were applicable to this study. They also provided a copy of the NTSB's computer tape for these accidents/incidents. This allowed the transfer of the data directly to a personal computer, thereby eliminating countless hours of data entry and errors that are inherent in such a task.

The NTSB's dockets are all stored on microfiche. Without Ms. Lara DePadilla's conscientious and systematic review of these dockets to extract the applicable data, this study would have never come to fruition. She was also responsible for most of the data entry of information that was not available directly from the NTSB computer tape.

Throughout the course of this study, the author spoke with employees from both the NTSB and the FAA who were involved in particular investigations to seek clarification of the information in the docket. Although there are too many to recognize individually, the author appreciated their sharing their recollections and is grateful for the information they provided.

Dave Thomas and Harold Donner of the FAA's Office of Accident Investigation and my colleague, Gale Braden, in the Office of Aviation Oversight, deserve specific recognition. In their positions with the FAA, as well as their former positions with the NTSB, they participated in the investigation of many of the accidents/incidents listed in this report. Although the information they provided regarding the details of individual accidents was very useful, their knowledge and explanation of the investigative procedures, as well as the comments they provided on the draft report, were particularly invaluable to the author.

Throughout this effort, the ability to review and sort data based on various parameters was essential. The author is indebted to Joe Baxter, Art Goon, and their colleagues at FU Associates for the technical assistance they provided on the computer aspects of this study.

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SECTION 1

INTRODUCTION

Background and Purpose

Commercial aviation has developed an outstanding safety record. However, occasionally there is a mishap, i.e., an accident or incident, in these operations:

- An accident involves fatalities, serious injuries, or major structural damage to the aircraft.
- An incident is a hazardous or potentially hazardous occurrence not classified as an accident because of the degree of injury and/or extent of damage.

The accident/incident could be due to equipment failure, human error, meteorological conditions, or any number of other conditions or combinations thereof.

When an accident/incident occurs in the vicinity of an airport, it is important to know the location of the aircraft relative to the runway. This information has many applications. To airport engineers, the aircraft location would be useful in developing new and/or revalidating existing airport design standards. For example, standards for runway protection zones and safety areas would be directly affected by this information. Aircraft accident/incident locations would also be important to officials responsible for making decisions on airport development and/or land uses in the vicinity of an airport. Persons involved in developing emergency response plans to aircraft accidents would also find this information useful, as would those responsible for day-to-day airport operations.

The aircraft's location in an accident/incident may be documented by the National Transportation Safety Board and the Federal Aviation Administration during the course of their investigation. When available, it appears in the record of the individual investigation. However, this location information is not available from either of these agencies in a summary form. This study was undertaken to compile in one document information on the location relative to the runway of accidents/incidents for aircraft involved in commercial air transportation in the United States.

Scope

Information in the National Transportation Safety Board's dockets of completed aviation accident and incident investigations during the period 1978-87 was used as the basis for this study. Over 500 accidents/incidents were reviewed as part of this effort. Of these, 246 accidents/incidents were identified as relevant.

The dockets examined were limited to accidents and incidents occurring during the following operations:

- Operations under Federal Aviation Regulation (FAR) Part 121 (Certification and operations: Domestic, flag, and supplemental air carriers and commercial operators of large aircraft)—includes all revenue operations conducted by scheduled and unscheduled (e.g., charter) U.S. carriers.
- Operations under Part 129 (Operations of Foreign Air Carriers) -- includes foreign air carriers conducting operations in the United States.
- Scheduled operations conducted under FAR Part 135 (Air Taxi Operators and Commercial Operators) -- includes scheduled air taxi or commuter operations; does not include operations involving seaplanes operating on the water or helicopters.

This study does not include accidents/incidents involving air carriers on nonrevenue flights such as a repositioning or ferry flight operated under FAR Part 91 (General Operating and Flight Rules).

To the extent data was available, the location of the aircraft relative to the runway was extracted from the docket for each of these accidents/incidents. Observations on the data for the various categories of accidents/incidents were also made; however, as noted above, no attempt was made to reach conclusions or make recommendations regarding the data.

¹ The dockets used in this study were reviewed during the last six months of 1988. There were investigations for accidents/incidents occurring in 1987 that had not been completed when this review was under way. These accidents/incidents are not included in this study.

SECTION 2

APPROACH

Data Sources

The National Transportation Safety Board (NTSB) is an independent agency of the Federal Government. It is responsible for investigating, or causing to be investigated, and determining the probable cause of transportation accidents, including those involving civil aviation, that occur in the United States and its territories.

Any civil aviation accident occurring in the United States should have a docket. This is the NTSB's official record of the investigation, and includes all the information gathered on the accident.

Under its charge to conduct special investigations and special studies, the NTSB may also choose to investigate aviation incidents. The NTSB dockets for incidents are usually limited to those in which the NTSB has participated in the investigation.

Several incidents relevant to this study were not included in the NTSB dockets, but were reflected in the FAA's Accident/Incident Data System. These records usually do not provide specific information on aircraft location. For most of these incidents, it is probably fair to assume that the aircraft touched down or came to rest in the immediate vicinity of the runway. Because of the lack of specific location information, no attempt was made to include these incidents in this study.

One should be aware of certain limitations when using the docket information on aircraft location. For example, the distances given are often to a single point, such as the landing gear, the nose, the tail, or any other portion of the aircraft. In some dockets, this point is specifically identified, while in others it is not. Also, the docket usually gives no indication of how the distance was obtained; it may have been measured with a tape, paced off, or estimated by the investigative team. Consequently, there is a certain amount of error inherent in the data. Nevertheless, despite these limitations, the information contained in these dockets is considered the best available.

Methodology

The NTSB docket for each applicable accident/incident was reviewed for the purpose of categorizing the accident/incident and determining whether the docket contained information on the aircraft's location relative to the runway. Appendix 1 provides a detailed explanation of the methodology used to identify the applicable accidents/incidents and to determine the aircraft's location.

For the latter purpose, the distance along the centerline or extended centerline was recorded as the X distance. The perpendicular distance by which the aircraft was offset from the centerline (or extended centerline) was recorded as the Y distance. For the Y distance, it was also noted whether the aircraft was left or right of the centerline based on the direction of the aircraft's operation. When information on the X or Y distance could not be found, the distance was recorded as unknown. Figure 1 depicts how the X and Y distances were measured for each category.

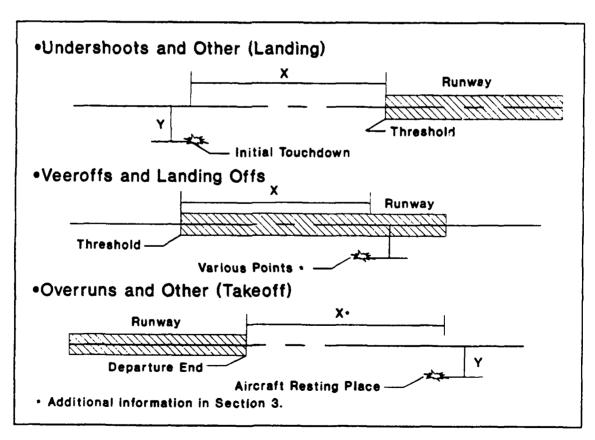


Figure 1. X and Y Distance Measurements for Each Category

In addition to the aircraft's location relative to the runway, information in such areas as the operation, the airport, the runway, and the aircraft type was retrieved directly from the NTSB computer for each accident/incident.

Definitions

Each applicable accident/incident was categorized as follows:2

- Undershoot--During landing, the aircraft touches down prior to the runway, usually due to the loss, lack, or misinterpretation of visual cues. For the purposes of this study, an undershoot is a touchdown in the approach area within 2000 feet of the runway threshold.
- Landing off--During landing, any part of the aircraft's landing gear touches down off the runway after the aircraft has passed the runway threshold.
- Veeroff--During landing rollout or takeoff roll, the aircraft runs off the side of the runway.
- Overrun--During landing rollout or takeoff roll, the aircraft runs off the end of the runway. Aircraft that run off the side of the runway but come to rest beyond the departure end of the runway have also been included in this category.
- Other--During landing, the aircraft impacts the ground more than 2000 feet from the runway threshold. During takeoff, the aircraft becomes airborne, but then impacts the ground prior to making the first airborne power reduction or reaching Visual Flight Rules (VFR) pattern altitude.

² Although these terms are commonly heard in the aviation industry, the NTSB does not currently use them to categorize accidents/incidents. The definitions provided reflect the way these terms are used in this report.

SECTION 3

AIRCRAFT LOCATIONS

This section presents information for the accidents/incidents categorized as undershoots, landing offs, veeroffs, overruns, and other. For each category, information is provided on the number of accidents/incidents, the types of operators, the locations of the aircraft relative to the runway, and any observations regarding the data. Note that the X and Y distances are given in feet.

For many of the accidents/incidents, one or more of the data elements were unknown or not reported. Unless otherwise stated, any percentages, ratios, and the like cited for a particular parameter in the discussion of the aircraft locations in each category are based on the accidents/incidents where the applicable data were known.

A complete listing of all the accidents/incidents included in this study is contained in Appendix 2. Additional appendices list the accidents/incidents contained in each category. Some introductory information on the data, abbreviations, and notations that appear in the appendices is provided at the beginning of Appendix 2.

Undershoots

There were 18 accidents/incidents categorized as undershoots. Of these, 11 involved Part 135 operators, and the remainder Part 121 operators. A listing of these accidents/incidents is contained in Appendix 3.

Figure 2 provides a bar graph of the X distance distribution in 200 foot increments. As can be seen from this graph, all of these accidents/incidents occurred within 1600 feet of the threshold, with 15 (83 percent) occurring within 1000 feet. All 7 of the undershoots involving Part 121 aircraft occurred within 600 feet of the threshold.

Since an aircraft involved in an undershoot is in the final stages of approach, little deviation from the extended runway centerline (Y distance) would be expected. The data bears this out: the initial touchdown point for aircraft involved in 13 of the accidents/incidents in this category was within the extended edges of the runway.

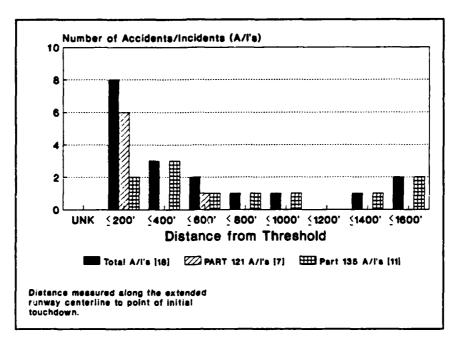


Figure 2. Undershoots: Distance from the Threshold

Of the remaining 5 undershoots, 1 was located approximately 25 feet from the extended runway edge, while 3 had variations ranging from 228 feet to 480 feet from the extended runway centerline. These 3 included an aircraft that encountered wake turbulence from another aircraft, one that experienced icing during an instrument approach, and one that ran out of fuel. The Y distance could not be determined for the fifth undershoot.

Figure 3 provides a plot relative to the runway of the undershoots that had both a known X and Y distance.

Part 135 operators were involved in all of the undershoots where the aircraft touchdown was more than 600 feet from the runway threshold (X distance) and/or outside the extended runway edges. One possible explanation of these statistics is that Part 135 aircraft operate at many airports lacking navigational aids such as visual glide path indicators or instrument landing systems.

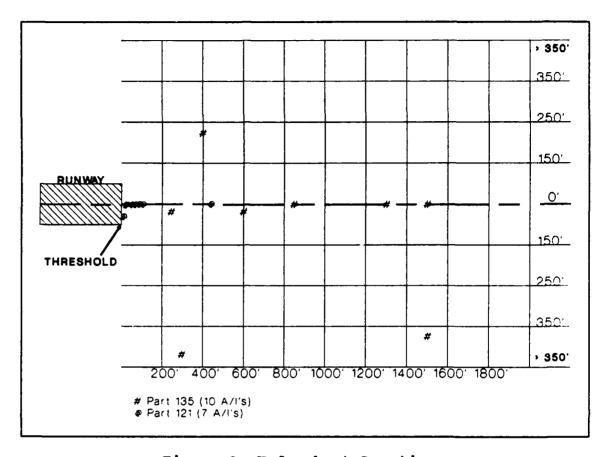


Figure 3. Undershoot Locations

The 11 Part 135 undershoots were examined further to see whether improved vertical guidance might have prevented them. The remarks section in Appendix 3 provides information on weather conditions, availability of vertical guidance, causal factors, and the author's judgment based on review of the NTSB records as to whether this might have been the case. This information is summarized below.

Part 135 undershoots in Visual Meteorological Conditions. Visual glide path indicators were not available for 6 of the 8 undershoots that occurred during Visual Meteorological Conditions. A visual glide path indicator might have helped prevent 4 of these 6.

Of these 4 undershoots, 2 involved aircraft encountering wake turbulence on approaches to large hub airports. A visual glide path indicator might have assisted the pilots to fly

above the flight path of the larger aircraft and thereby avoid the wake turbulence. The third of these undershoots involved a pilot misjudging distance, speed, and altitude on his approach to the runway, while the fourth involved a pilot who encountered wind shear. A visual glide path indicator might have alerted these two pilots that they were below the proper glide path, thereby allowing them to take corrective action. The investigators for the accident involving wind shear noted that it would be difficult to install a visual glide path indicator because of the curved approach through a mountain pass.

The 2 accidents/incidents where a visual glide path indicator would not have made a difference include an aircraft that ran out of fuel and an aircraft with a center of gravity substantially aft of its authorized limit.

Part 135 undershoots in Instrument Meteorological Conditions. Of the Part 135 undershoots, 3 occurred in Instrument Meteorological Conditions. Of these, 1 involved an aircraft that encountered wind shear while on an Instrument Landing System (ILS) approach. The remaining 2 involved aircraft icing; 1 was on a VOR approach while the other was on a VFR flight plan to an airport that had neither a VASI nor runway lights. It is doubtful that additional vertical guidance would have prevented any of these accidents.

Landing Offs

There were 11 accidents/incidents categorized as landing off the runway. Of these, 6 involved Part 135 operators, and the remainder Part 121 operators. A listing of these accidents/incidents is contained in Appendix 4.

The difference between an accident/incident categorized as an undershoot and one categorized as a landing off is that in the latter, the aircraft has passed the threshold when it touches down. The aircraft's landing gear may touch down entirely or partially off the runway.

Initially, an attempt was made to measure both the X and Y distances to the aircraft's stopping point for these accidents/incidents. In 2 of the cases, the aircraft did not stop, but became airborne again and proceeded to another airport. In another case, the aircraft was able to enter

and stop on the runway. In other cases, information was available only on the aircraft's initial touchdown point. Because of this variation, the remarks for each accident/incident entry in Appendix 4 specify the points to which these distances were measured.

The 5 Part 121 accident/incidents in this category all occurred during Instrument Meteorological Conditions. Although the NTSB determined various probable causes, they could be grouped generically under the term "pilot error."

In contrast, only 1 of the 6 Part 135 accidents/incidents occurred in Instrument Meteorological Conditions. It was also caused by "pilot error," as were 2 of the accidents/incidents that occurred during Visual Meteorological Conditions. The remaining 3 were attributed to mechanical difficulties.

Veeroffs

There were 97 veeroffs. Part 121 operators were involved in 38 of these accidents/incidents, while Part 135 operators were involved in the remaining 59. The veeroff category does not include accidents/incidents where the aircraft veered off the side of the runway but came to rest beyond the departure end of the runway; these accidents/incidents were categorized as overruns. A listing of veeroff accidents and incidents is contained in Appendix 5.

Although veeroffs may occur during landing or takeoff, they are more prevalent during landing. Table 1 shows how the veeroffs were divided between landing and takeoff for Part 121 and 135 operators.

Table 1. Veeroffs by Phase of Operation and Operator Type

TYPE OF	PHASE OF OPERATION					
OPERATOR OPERATOR	Landing	Takeoff	Total			
Part 121	35	3	38			
Part 135	39	20	59			
Total	74	23	97			

For veeroffs, the point to which the X distance was measured varied based on the information available in the docket. For this reason, letter prefixes of A, B, and C have been used to code the X distance data. These letters indicate the following:

- A distance to the point where the aircraft left the runway
- B distance to the point where the aircraft came to rest off the runway
- C distance to the point where the aircraft reentered the runway

In some cases, the docket provided information on both the point at which the aircraft departed the runway and that at which it came to rest or reentered the runway. When more than one of these distances was available, both were recorded. However, for many of the veeroffs, information on only one of these points was available. An X distance could not be found for 32 of the veeroffs. Figure 4 shows the distribution of

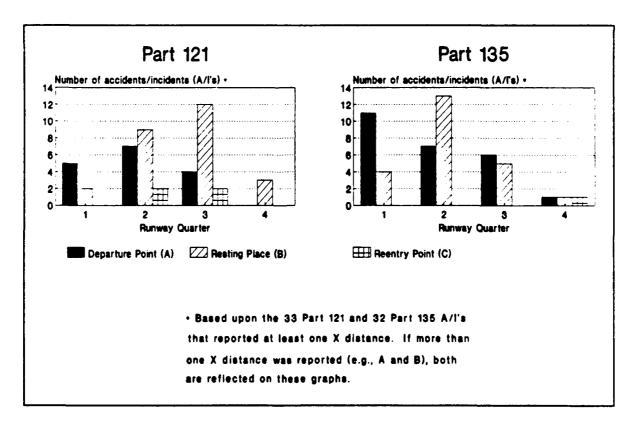


Figure 4. Veeroffs by Quarter of the Runway

the X distance by quarter of the runway for Part 121 and Part 135 accidents/incidents that had recorded X values.

Since the information recorded in the dockets for the Y distance also varied, a letter prefix of D or E was used to code each entry in the following manner:

- D distance from the centerline to the point where the aircraft came to rest off the runway
- E distance from the centerline to the farthest point to which the aircraft traveled from the centerline (This distance was usually provided when the aircraft reentered the runway.)

An R or L prefix is also used with each entry to indicate whether the aircraft veered off the right or left side of the runway, as determined by the direction of the operation.

For 41 of the veeroffs, a Y distance could not be found. Figure 5 shows the distribution of the known Y distances. As can be seen from this figure, 63 percent of the aircraft stayed within 150 feet of the runway centerline, and 88 percent of them remained within 250 feet.

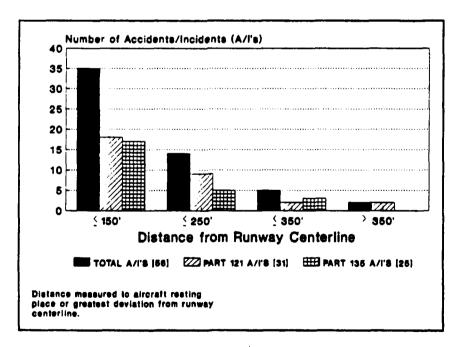


Figure 5. Veeroffs: Distance from Runway Centerline

Table 2. Veeroffs by Status of Runway Surface and Type of Operator

1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	RUNWAY SURFACE STATUS						
TYPE OF OPERATOR			Wet	Snow*	Total		
Part 121	6	10	12	10	38		
Part 135	9	28	6	16	59		
Total	16	38	18	25	97		

^{*}Includes ice and slush.

Table 2 shows the status of the runway surface (e.g., dry, wet, snow-covered) for the veeroff accidents/incidents. One might suspect that veeroffs would be more likely to occur when the runway surface was not dry. As can be seen from Table 2, this was true for Part 121 operations, for which veeroffs on wet, snow-covered, icy, or slush-covered runways exceeded those on dry runways by almost a 2:1 ratio. In contrast, the majority of veeroffs involving Part 135 operations occurred on dry runways.

The veeroffs on dry runways were further reviewed. It was found that 6 of the 10 Part 121 veeroffs and 17 of the 28 Part 135 veeroffs that occurred on dry runways involved problems with the landing gear. These problems included, for example, the gear collapsing, failure of the gear to extend fully, and failure of the crew to lower the gear.

Another theory is that veeroffs are more likely to occur on narrow runways. The width of the runways involved in each of the veeroffs was determined for 94 of the 97

Table 3. Veeroffs by Runway Width and Operator Type

	RUNWAY WIDTH						
TYPE OF OPERATOR	Not Reptd.	<150'	=150'	>150'			
Part 121	2	7	23	6			
Part 135	1	20	30	8			
Total	3	27	53	14			

accidents/incidents in this category. As can be seen from Table 3, over 70 per cent of the veeroffs occurred on runways that were at least 150 feet wide. However, 3 of the veeroffs (2 Part 121 and 1 Part 135 operations) occurred during a seven-month period at one airport on the same 75 foot wide runway. This runway was subsequently widened to 150 feet.

The effect of runway surface treatments, such as grooving and porous friction courses, could not be determined because of the lack of reported data. Surface treatments were reported for only 17 of the veeroffs.

Overruns

There were 33 accidents/incidents categorized as overruns. Part 121 operators were involved in 20 of these accidents/incidents, while Part 135 operators were involved in 10. The remaining 3 overruns involved Part 129 operators. For purposes of this discussion, the overruns involving Part 121 and 129 operators are grouped together. A listing of the overruns is contained in Appendix 6.

Overruns may occur during landing or takeoff. Like veeroffs, overruns were found to be more prevalent during landing by a 2:1 ratio. Table 4 shows how the overruns were divided between landing and takeoff for Part 121/129 and Part 135 operators.

Table 4. Overruns by Phase of Operation and Operator Type

MUDE OF	PHASE OF OPERATION					
TYPE OF OPERATOR	Landing	<u>Takeoff</u>	Total			
Part 121/129	15	8	23			
Part 135	7	3	10			
Total	22	11	33			

³Starting in 1982, the NTSB included information on runway width in its computer-retrievable database on accidents and incidents. For veeroffs that occurred prior to 1982, information on runway width was obtained from the narrative portion of the docket. Whenever this information was not available in the docket, it was obtained from the history file for FAA Form 5010, Airport Master Record, for the airport where the accident occurred.

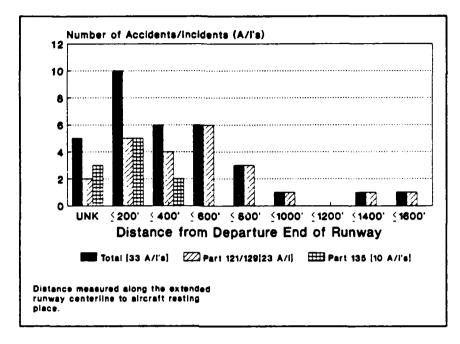


Figure 6. Overruns: Distance from the Departure End

An X distance could not be found for 5 of the overruns. Figure 6 shows a distribution of the X distance for overruns for which this data was available. As can be seen from the figure, all the aircraft involved in these overruns came to rest within 1600 feet of the runway end, with 93 per cent of them stopping within 1000 feet. Of the overruns where the aircraft traveled beyond 1000 feet, 1 involved a DC-10 crew that became disoriented during low-visibility conditions and began their takeoff with 2400 feet of runway remaining.

The X distance was reported for 7 of the overruns involving Part 135 operations. For these accidents/incidents, all the aircraft came to rest within 400 feet of the runway end, with 5 of them stopping within 200 feet.

A Y distance could not be determined for 11 of the overruns. Figure 7 shows a distribution of the Y distances for overruns for which this data was available. As can be seen from the figure, 95 per cent of the aircraft involved in these overruns stopped within 250 feet of the extended runway centerline. A comparison of the runway width and the Y distance reveals that 64 per cent of the overruns remained within the extended edges of the runway.

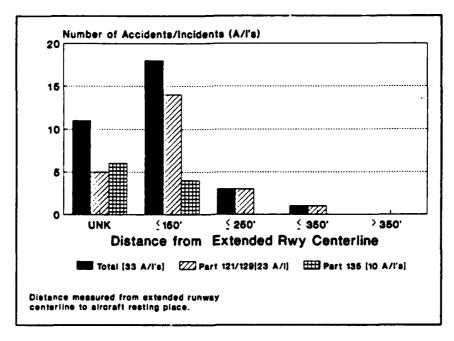


Figure 7. Overruns: Distance from the Extended Runway Centerline

Figure 8 provides a plot in relation to the runway of overruns for which both X and Y distances are known.

Overruns were more likely to occur when the runway was not dry. For the 30 overrun accidents/incidents for which the status of the runway was reported, 23 involved wet, snow-covered, or icy runways. The status of the runway surface was more of a factor in the overruns during landing than during takeoff. For the landing overruns, 17 of the 19 accidents/incidents occurred on wet, snow-covered, or icy runways. In contrast, these conditions were involved in 5 of the 11 takeoff overruns.

The effect of runway surface treatments, such as grooving and porous friction courses, could not be determined because of the lack of data. Surface treatments were reported for only 8 of the overruns.

Other

There were 87 accidents/incidents categorized as other. Part 121 operators and Part 135 operators were involved in 22 and 65 of these, respectively. Appendix 7 provides a listing of the accidents and incidents in this category.

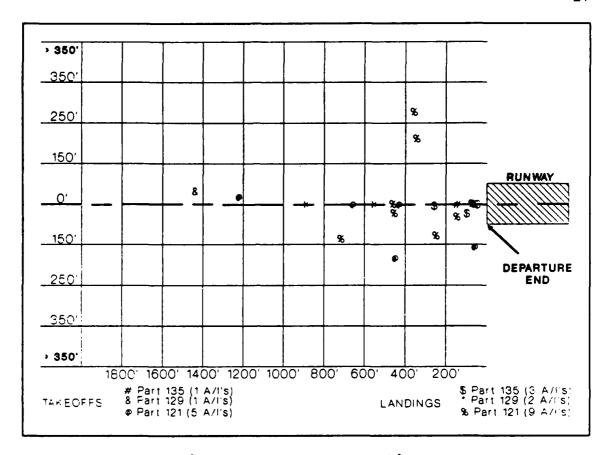


Figure 8. Overrun Locations

The accidents/incidents categorized as other occurred during landing or takeoff. Table 5 provides a breakdown of this category by phase of operation and operator type. Those accidents/incidents in this category involving go-arounds were listed as takeoff or landing based on whether they were departing or approaching the airport.

Table 5. Other Accidents/Incidents by Phase of Operation and Operator Type

TYPE OF	PHASE OF OPERATION				
OPERATOR	Landing	Takeoff	Total		
Part 121	7	15	22		
Part 135	30	35	65		
Total	37	50	87		

In those cases where the aircraft taking off came to rest prior to the departure end, the X distance was measured along the runway centerline from the approach end of the runway. These cases are noted with the letters "APP" after the X distance, e.g., 5700 APP.

The dockets for several accidents contained only a distance in miles and, sometimes, a direction from the airport or runway. Although these distances were not necessarily measured along the extended centerline, they have been recorded in the space for the X distance entry and are preceded by an asterisk. These distances are from the threshold for landings and the departure end of the runway for takeoffs unless they are specifically referenced to the airport, e.g., 1.7M SE APT (meaning the location is 1.7 miles southeast of the airport.) These distances were included to show the wide disparity in locations for this category.

A plot of the aircraft locations for other accidents/incidents in the vicinity of the airport that occurred during landing is provided in Figure 9, while those

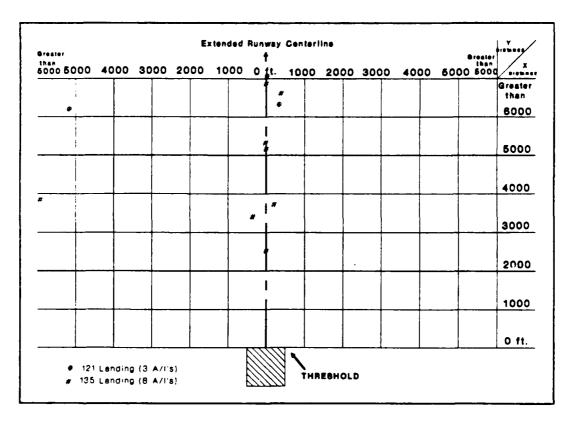


Figure 9. Other Accidents/Incidents: Landing in the Vicinity of the Airport

involving takeoff are plotted in Figure 10. Only the accidents/incidents for which both X and Y distances are known are plotted in these figures. Accidents/incidents involving takeoffs that did not pass the departure end of the runway are also not plotted. As can be seen from the figures, there is a wide disparity in aircraft accident/incident locations for this category.

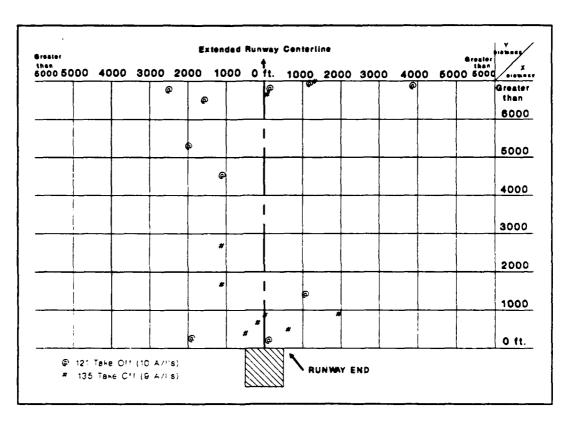


Figure 10. Other Accidents/Incidents: Takeoffs in the Vicinity of the Airport

SECTION 4

CONCLUSION

This report has presented information on the location relative to the runway of aircraft involved in accidents/incidents in the vicinity of the airport. While detailed analysis of this information, as well as conclusions and recommendations, is beyond the scope of this report, it is hoped that the information presented will prove useful to airport engineers, airport operators, government officials, and others involved in ensuring the safety and efficiency of airport design and operations.

APPENDIX 1

METHODOLOGY

Identifying the Applicable Accidents/Incidents

The NTSB aviation dockets contain information on all types of accidents and incidents. To focus on the dockets that would be of interest in this effort, a computer printout was obtained from the NTSB for any accident/incident that occurred during approach, landing, or takeoff and involved operations conducted under Part 121, 129, or 135 (scheduled) of the Federal Aviation Regulations.

As used in the NTSB dockets, the terms approach, landing, and takeoff have the following meanings:

- Approach--From the time the descent ends (either Initial Approach Fix, Final Approach Fix, Outer Marker, or Visual Flight Rules pattern entry) until the aircraft reaches the Missed Approach Point (Instrument Meteorological Conditions [IMC]) or the runway threshold (Visual Meteorological Conditions [VMC]). Includes missed approach and go-around (VMC).
- Landing--From either the Missed Approach Point (IMC) or the runway threshold (VMC) through touchdown or after touchdown off the airport, until the aircraft completes its ground run.
- Takeoff--From the time the power is applied for takeoff, up to and including the first airborne power reduction, or until reaching VFR traffic pattern altitude, whichever occurs first. Includes ground run and initial climb.

A brief on each of the accidents/incidents meeting these criteria was provided on the printout. As the name implies, the brief contains some limited information about the occurrence, along with a short narrative description.

Some of the approach, landing, and takeoff accidents/incidents were eliminated from further consideration based on the brief information. These events were incidents in which something occurred in the approach, landing, or takeoff phase of flight, but did not result in the aircraft's touching down off the runway or leaving the runway in other than a normal manner. Typically, the briefs for these incidents provide an explanation of the incident, coupled with a phrase such as "landed without further incident" or "continued flight without further incident."

For each remaining accident/incident listed on the printout, the NTSB docket was reviewed. Each accident/incident was categorized as an undershoot, landing off, veeroff, overrun, other, runway, or not applicable. The definitions for the first five categories appear in the body of this report. The last two categories are defined as follows:

- Runway--During landing rollout or takeoff roll, the aircraft becomes physically disabled on the runway or is evacuated on the runway.
- Not Applicable—Any other accident/incident included on the printout that could not be placed in one of the above categories. These comprise the same types of occurrences that were eliminated when the briefs were reviewed; the information on the brief was not enough to eliminate the accident/incident from further consideration at that time.

Accidents/incidents categorized as runway or not applicable were eliminated from further consideration. For the remaining categories, each docket was reviewed to determine whether it contained information on the location of the aircraft relative to the runway.

Determining the Aircraft Location

The docket is the official record of all information that the NTSB has on a particular accident/incident. The information contained in the docket is gathered during the investigation. Under the current system, much of this information is documented on the Factual Report Aviation (NTSB Form 6120.4) so that it can be easily retrieved with a computer. Supplement Q of this form provides information on the aircraft location relative to the runway.

The information contained in the applicable data elements of Supplement Q was reviewed for this study. The form of the data (distance from runway and bearing) is difficult to use for a comparative analysis. Moreover, this information was often found to be missing, incomplete, or in conflict with

⁴ For the period covered by this study, the NTSB used three different computer systems to store information on accidents/incidents. The first system was used through 1981, the second one was used only in 1982, and the third has been in effect since 1983.

other information in the file. There are similar problems with the data on aircraft location stored in the NTSB computer systems that were in effect from 1978 through 1982.

Although it is not computer-retrievable, the narrative portion of the Factual Report or the reports of the various subgroups formed by the NTSB for an investigation often contain specific information on aircraft location. When the information is not in a narrative statement, there may be a scaled drawing or a rough sketch that allows the location to be measured or calculated. However, in some cases, there is just not enough information in the file to determine the location.

The aircraft's location was recorded in terms of the distance along the runway centerline or extended centerline, and the perpendicular distance from the runway centerline or extended centerline. The former distance was referred to as the X distance, and the latter as the Y distance.

In some cases, the X and Y distances were specifically stated in the docket. In other cases, it was possible to calculate or measure these distances based on the docket information. Sometimes, persons who participated in the investigation were called to see whether they could remember any additional details that could be used in conjunction with the docket information to determine the X and Y distances. The Y distance was also recorded as the distance left or right of centerline, based on the direction of the aircraft's operation. When this information could not be found, the distance was recorded as unknown.

In lieu of specific information on the offset distance from the centerline, the dockets would sometimes contain statements such as "aircraft came to rest in grass along right edge of runway" or "aircraft veered off centerline to avoid approach lights at end of the runway." For purposes of this analysis, this type of information was converted into numerical values. The following rules were used for this conversion:

- For any Part 121/129 aircraft located along the edge of the runway, the offset distance was calculated as Y = 1/2 runway width plus width of aircraft landing gear.
- For any Part 135 aircraft located along the edge of the runway, the offset distance was calculated as Y = 1/2 runway width plus 10 feet.
- For aircraft that remained within the area formed by the extended edges of the runway, an offset distance of zero was used unless specific information was provided.

• For aircraft located between the runway and parallel taxiway, the offset distance was calculated as Y = 1/2 the distance between the runway and taxiway centerline.

Using these rules to assign numerical values to the Y distance may appear to be somewhat arbitrary. However, for purposes of this analysis, this approach was not expected to impact the accuracy of the data since the information was grouped in ranges rather than used as individual data points.

APPENDIX 2

CHRONOLOGICAL LISTING OF ACCIDENTS/INCIDENTS

This appendix provides a chronological listing of all the accidents/incidents included in this study. Except as discussed below, the information for each accident/incident was derived directly from the NTSB computer system. The information recorded for accidents/incidents under each of the three computer systems used by the NTSB during the period under study differs somewhat. Consequently, the information presented for each accident/incident in this and subsequent appendices does not necessarily contain all the elements. The absence of an entry for an element means that this information was not available from the computer system.

The data entries for the category, phase, X distance, and Y distance are based on information obtained from the review of the NTSB dockets. As previously explained, the runway identification and width information was entered for the veeroffs that occurred prior to 1982.

Some of the abbreviations and notations used in this and subsequent appendices need to be explained. Under the state entry, the abbreviations are not limited to the 50 states, but also include territories, as well as two foreign countries. The following abbreviations are used for the entities that are not states:

AS - American Samoa

BA - Bahamas

GQ - Guam

PM - Panama

PR - Puerto Rico

TQ - Trust Territories of the Pacific Islands

VI - Virgin Islands

A double asterisk appears after the city name for three of the accidents/incidents. This notation is used to indicate that the NTSB docket for these accidents/incidents is not listed under these cities.

The listings notated in this manner for Los Angeles, California and Pocatello, Idaho are found under Ontario, California and Salt Lake City, Utah, respectively, in the NTSB dockets. Although the overrun and veeroff occurred at the locations cited in the appendix, the actual event that caused the accident/incident occurred while the aircraft were on

approach to the airports for the cities listed in the NTSB docket. The information appearing in the appendix for these two accidents/incidents was taken from the docket and FAA airport master records.

The third double asterisk notation is for an incident listed under Washington, D.C. This incident was included as part of the NTSB's special investigation on runway incursions. Separate dockets were not established for the incidents included in the special investigation. The information in the appendix for this incident was taken from the NTSB's report on runway incursions and FAA airport master records.

Following this appendix are appendices listing accidents/incidents by each category--undershoots, landing offs, veeroffs, overruns, and other.

Acft Mfr: DEMAVND CA/DHC-6 FAR Part: 135	VDIStance: D L 120	Acft Mfr: BEECH/B99A Far Part: 135	YDistance: UNK	Acft Mfr: BEECH/C45H FAR Part: 135 YDistance:	Acft Mfr: BEECH/99 FAR Part: 135 YDistance: L1031	Acft Mfr: CESSNA/402 FAR Pert: 135 YDistence: D L 85	Acft Mfr: CESSNA/4018 FAR Part: 135 YDistance: D l. 60	Acft Mfr: SWEARINGEN/SA226 FAR Part: 135 YDistance: D R 60	Acft Mfr: BEECH/E18S FAR Part: 135 YDistance: D.L. 170	Acft Mfr: DOUGLAS/DC-10 FAR Part: 121 YDistance: 0	Acft Mfr: CESSNA/337F FAR Part: 135 YDistance:
Owner Name: Operator Name/DBA: ROCKY MI.AWYS Rwy Surface Character:	ADISTANCE: ASSUU	Owner Name: Operator Name/DBA: AERO MECH INC Rwy Surface Character:	XDistance: B1800	Owner Name: Operator Name/DBA: FLT EXPRES CA Rwy Surface Character: XDistance: *1M	Owner Name: Operator Name/DBA: COLUMBIA PACI Rwy Surface Character: XDistance: 1669	Owner Name: Operator Name/DBA: DICKNAN AVIAT Rwy Surface Character: XDistance: A1450 81790	Owner Name: Operator Name/DBA: BUSH AIR,INC Rwy Surface Character: XDistance: B1200	Owner Name: Operator Name/DBA: AIR WISCONSIN Rwy Surface Character: XDistance: B2300	Owner Name: Operator Name/DBA: FLIGHT EXPRES Rwy Surface Character: XDistance: A2175 82509	Owner Name: Operator Name/DBA: CONTINENTAL AIRLINES Rwy Surface Character: XDistance: 654	Owner Name: Operator Name/DBA: ISLAND AIR,IN Rwy Surface Character: XDistance: *.67NM
Arpt Name: LAKE COUNTY () Wid: 75 Rwy Status: DRY	rase: Lwo	Arpt Mame: BENEDUM () Wid: 150 Rwy Status: SLUSM COVERED	Phase: 1/0	Arpt Name: GREATER WILMINGT () Wid: Rwy Status: ICE COVERED Phase: LMD	Arpt Name: RICHLAND () Wid: Rwy Status: Phase: 7/0	Arpt Name: ROLLA NATIONAL () Vid: 150 Rwy Status: SNOW Phase: LND	Arpt Name: HOOPER BAY () Wid: 100 Rwy Status: SWOW-CRUSTED Phase: LND	Arpt Name: O'NARE INTL () Wid: 150 Rwy Status: ICE COVERED Phase: T/O	Arpt Name: MARRISBURG INTL () Wid: 200 Rwy Status: Phase: LND	Arpt Name: LOS ANGELES INTL () Wid: Rwy Status: WET Phase: T/0	Arpt Name: GUAM INTL () Wid: Rwy Status: DRY Phase: 1/0
01/05/78 LEADVILLE, CO RWY ID: 34 Lgth: 4800 Surface Type: MACADAM	בַ	01/17/78 CLARKSBURG, UV RWY 10: 3 Lgth: 5200 Surface Type: MACADAN	Category: VEER	01/17/78 NEW CASTLE, DE Rwy 10: Lgth: 7000 Surface Type: NACADAN Category: OTHER	02/10/78 RICHLAND, WA Rwy 1D: Lgth: 4000 Surface Type: MACADAM Category: OTHER	02/13/78 VICHY, MO Rwy 10: 22 Lgth: 5500 Surface Type: MACADAM Category: VEER	02/16/78 HOOPER BAY, AK Rwy 10: 31 Lgth: 4000 Surface Type: TWO OR MORE Category: VEER	02/16/78 CHICAGO, 1L Rwy ID: 36 Lgth: 5341 Surface Type: CONCRETE Category: VEER	02/17/78 MIDDLETOWN, PA Rwy ID: 31 Lgth: 9501 Surface Type: MACADAM Category: VEER	03/01/78 LOS ANGELES, CA Rwy 10: Lgth: 10285 Surface Type: TWO OR MORE Category: OVER	03/01/78 AGANA, GQ Rwy ID: Lgth: 10000 Surface Type: MACADAM Category: OTHER

Acft Mfr: CONVAIR/580	Acft Wfr: PIPER/PA-31 FAR Part: 135 YDistance: L 25	Act Mfr: BOEING/727	Acft Wfr: CESSNA/402B	Acft Wfr: PIPER/PA-31	Acft Wfr: BEECH/H18	Acft Mfr. BEECH/3NM	Acft Mfr. BEECH/18	Acft Mfr. AERO COMDR/680	Acft Mfr: PIPER/PA-32
FAR Part: 121		FAR Part: 121	FAR Part: 135	FAR Part: 135	FAR Part: 135	FAR Part: 135	FAR Part: 135	FAR Part: 135	FAR Part: 135
YDistance: D R 165		YDistance:	YDistance: L UNK	YDistance: UNK	YDistance: UNK	YDistance: R UNK	YDistence:	YDistance: UNK	YDistance: UNK
Owner Name: Operator Name/DBA: Rwy Surface Character: XDistance: 84105	Owner Name: Operator Name/DBA: PERKIOMEN AIR Rwy Surface Character: XDistance: 600	Owher Name: Operator Name/DBA: WATIOWAL AIRLINES Rwy Surface Character: XDistance: *3.5M	Owner Name: Operator Name/DBA; BROWER AIRWAY Rwy Surface Character; XDistance: UNK	Owner Name: Operator Name/DBA: AMERICAN AIR Rwy Surface Character: XDistance: UNK	Owner Name: Operator Name/DBA: ALL HAWAII AI Rwy Surface Character: XDistance: 184	Owner Name: Operator Name/DBA: SPRINGFIELD A Rwy Surface Character: XDistance: A5500 86000	Owner Name: Operator Name/DBA: GREAT WESTERN Rwy Surface Character: XDistance: *2.7M ME APT	Owner Name: Operator Name/DBA: AAA AIR ENTER Rwy Surface Character: XDistance: UNK	Owner Name: Operator Name/DBA: COSTAL PLAINS Rwy Surface Character: XDistance: 60
Arpt wame: HOPKINS INTL () Wid: 150 Rwy Status: WET Phase: LND	Arpt Wame: CULEBRA () Wid: Rwy Status: DRY Phase: LND	Arpt wame: PENSACOLA RGNL () Wid: Rwy Status: Phase: LMD	Arpt Name: KEOKUK MUNI () Wid: 100 Rwy Status: WET Phase: T/O	Arpt Name: BLUE RIDGE () Wid: Rwy Status: DRY Phase: T/O	Arpt Name: MOLOKAI () Wid: Rwy Status: UMK/NR Phase: LMD	Arpt Wame: SYRACUSE-WANCOCK () Wid: 150 Rwy Status: Phase: T/O	Arpt Name: BRADLEY INTL () Wid: Rwy Status: Phase: LND	Arpt Nome: () Wid: Rwy Status: Phase: LND	Arpt Name: BEAUFORT COUNTY () Wid: Rwy Status: WET Phase: LND
04/20/78 CLEVELAND, ON		05/08/78 PENSACOLA, FL	05/11/78 KECKUK, 1A	05/19/78 MARTINSVILLE, VA	05/19/78 MOLAKAI, HI	05/23/78 SYRACUSE, WY	06/19/78 WIMDSOR LOCKS, CT	06/23/78 ASHLAND, NE	07/05/78 BEAUFORT, SC
Rwy 1D: 28 R Lgth: 6015		Rwy 10: Lgth:	Rwy 1D: 13 Lgth: 3800	Rwy ID: Lgth: 3000	Rwy ID: Lgth: 4500	Rwy 1D: 26 Lgth: 9005	Rwy ID: Lgth:	Rwy ID: Lgth:	Rwy 10: Lgth: 3000
Surface Type: CONCRETE		Surface Type:	Surface Type: CONCRETE	Surface Type: MACADAM	Surface Type: MACADAM	Surface Type:	Surface Type:	Surface Type:	Surface Type: MACADAM
Category: VEER		Category: OTHER	Category: VEER	Category: OVER	Category: OVER	Category: VEER	Category: OTHER	Category: OTHER	Category: OVER

Acft Mfr: BRITISH AC/1-11 FAR Pert: 121 YDistence: L 143	Acft Mfr: DQUGLAS/DC-9 FAR Part: 121 YDistance: UNK Acft Mfr: CONVAIR/580 FAR Part: 121 YDistance:	Acft Mfr: CESSNA/402A FAR Part: 135 YDistance: UNK Acft Mfr: BEECH/D18S FAR Part: 135 YDistance: L UNK	Acft Wfr: LOCKHEED/L-382G FAR Part: 121 YDistance: UNK Acft Wfr: PIPER/PA-31 FAR Part: 135 YDistance: R UNK	Acft Mfr: SWEARINGEN/SA226 FAR Part: 135 YDistance: L UMK Acft Mfr: GRUMMAN/G-21A ES FAR Part: 121 YDistance: D L 60	Acft Wfr: AERO COMDR/5008 FAR Pert: 135 YDistance: 0
Owner Wame: Operator Wame/DBA: USAIR Rwy Surface Character: XDistance: 728	Owner Name: Operator Name/DBA: WORTH CENTRAL AIRLINES Rwy Surface Character: XDistance: 738 Owner Name: Operator Name/DBA: WORTH CENTRAL AIRLINES Rwy Surface Character: XDistance: *2M E APT	Owner Name: Operator Name/DBA: CAPITOL AIR SERVICE Rwy Surface Character: XDistance: UNK Owner Name: Operator Name/DBA: BLACKHAWK AIR Rwy Surface Character: XDistance: A 860 81266	Owner Name: Operator Name/DBA: TRANS INT AIR Rwy Surface Character: XDistance: UMK Owner Name: Operator Name/DBA: EUREKA AERO I Rwy Surface Character: XDistance: UMK	Owner Name: Operator Name/DBA: TEJAS AIRLINE FAR: Part: 135 Rwy Surface Character: XDistance: A4100 85000 Owner Name: Operator Name/DBA: KODIAK WESTERN ALASKA AIRLINES FAR Part: 121 Rwy Surface Character: XDistance: B1980	Owner Name: Operator Name/DBA: COMBS AIRWAYS Rwy Surface Character: XDistance: 5280
Arpt Name: MONROE COUNTY () Wid: Rwy Status: DRY Phase: LNO	Arpt Name: WITTMAN FIELD () Wid: Rwy Status: WET Phase: LWD Arpt Name: KALAWAZOO MUN! () Wid: Rwy Status: Phase: 1/0	Arpt Name: MANHATTAN MUNI (MHK) Wid: Rwy Status: DRY Phase: T/O Arpt Name: O'HARE INT'L () Wid: 150 Rwy Status: DRY Phase: LWO	Arpt Name: DOVER AFB () Wid: Rwy Status: DRY Phase: LWD Arpt Name: KNEELAND () Wid: 75 Rwy Status: DRY	Arpt Name: ROBERT MJELLER () Wid: 150 Rwy Status: DRY Phase: LND Arpt Name: OLD HARBOR () Wid: 90 Rwy Status: DRY Phase: T/O	Arpt Name: GREAT FALLS INTL () Wid: Rwy Status: WET Phase: LWD
07/09/78 ROCHESTER, MY Rwy 1D: Lgth: 5500 Surface Type: MACADAM Category: 0VER	07/21/78 GSHKOSH, WI RNY 10: Lgth: 6700 Surface Type: COMCRETE Category: OVER 07/25/78 KALAMAZOD, MI RNY 10: Lgth: Surface Type: Category: OTMER	08/03/78 MANHATTAN, KS Rwy 10: Lgth: 5500 Surface Type: CONCRETE Category: OTHER 08/06/78 CNICAGO, 1L Rwy 1D: 14 L Lgth: 10003 Surface Type: MACADAN Category: VEER	08/10/78 DOVER, DE Rwy 1D: Lgth: 9600 Surface Type: MACADAM Category: VEER 08/11/78 KNEELAND, CA Rwy 1D: 33 Lgth: 2400 Surface Type: MACADAM Category: VEER	08/13/76 AUSTIN, TX RMY ID: 12 R Lgth: 7269 Surface Type: MACADAM Category: VEER 09/02/78 OLD HARBOR, AK RMY ID: 18 Lgth: 2000 Surface Type: GRAVEL Category: VEEA	09/06/78 GREAT FALLS, MT Rwy ID: Lgth: 10500 Surface Type: CONCRETE Category: OTHER

Acft Mfr: CESSNA/1829	Acft Mfr: PIPER/PA-31	Acft Mfr: BEECH/G18S	Acft Mfr: BOEING/727	Acft Mfr: DOUGLAS/DC-8-6	Acft Mfr: CESSNA/401A	Acft Wfr: CESSNA/402	Acft Mfr: DEMAVILLAN/114-2x	Acft Mfr: DOUGLAS/DC-8	Acft Mfr: BEECH/G18S
FAR Part: 135	FAR Part: 135	FAR Part: 135	FAR Part: 121	FAR Part: 121	FAR Part: 135	FAR Part: 135	FAR Part: 135	FAR Part: 121	FAR Part: 135
'YDistance: UNK	YDistance:	YDistence:	YDistance: E R 85	YDistance: E L 95	YDistance: R 325	YDistance: UNK	YDistance: UNK	YDistance:	YDistance: UNK
Owner Name: Operator Name/DBA: AIR CENTER IN Rwy Surface Character: XDistance: UNK	Owner Name: Operator Name/DBA: APPLACHIAN FL Rwy Surface Character: XDistance: *2M	Owner Name: Operator Name/DBA: FESTUS FLYING Rwy Surface Character: XDistance: *7M APT	Owner Name: Operator Name/DBA: PIEDMONT AVIATION Rwy Surface Character: XDistance: A1500 C3060	Owner Name: Operator Name/DBA: FLYING TIGER Rwy Surface Character: XDistance: UNK	Owner Name: Operator Name/DBA: INTERNATL AVI Rwy Surface Character: XDistance: 837	Owner Name: Operator Name/DBA: RAPID AIR INC Rwy Surface Character: XDistance: UNK	Owner Name: Operator Name/DBA: FISCHER BROS Rwy Surface Character: XDistance: UNK	Owner Name: Operator Name/DBA: UNITED AIRLINES Rwy Surface Character: XDistance: *6.1kM APT	Owner Name: Operator Name/DBA: UNION FLIGHTS Rwy Surface Character: XDistance: UNK
Arpt Name: SAN ANTONIO INTL () Wid: Rwy Status: Phase: LND	Arpt Name: TRI-CITIES () Wid: Rwy Status: DRY Phase: LND	Arpt Name: HAYS MUNI () Wid: Rwy Status: WET Phase: LMD	Arpt Name: SHITH-REYNOLDS () Wid: 150 Rwy Status: WET Phase: LND	Arpt Name: INTERCONTINENTAL () Wid: 150 Ray Status: DRY Phase: LND	Arpt Name: GREATER ROCKFORD () Wid: Rwy Status: DRY Phase: LND	Arpt Name: () Wid: Rwy Status: Phase: LND	Arpt Name: CLEVELAND HOPKIN () Wid: 150 Rwy Status: DRY Phase: LND	Arpt Name: PORTLAND INTL () Wid: Rwy Status: DRY Phase: LND	Arpt Name: SACRAMENTO EXEC () Wid: Rwy Status: UNK/NR Phase: T/O
09/07/78 SAN ANTONIO, TX	09/19/78 BLCUMTVILLE, TW	11/16/78 HAYS, KS Rwy ID: Lgth: 5700 Surface Type: CONCRETE Category: OTHER	11/17/78 WINSTON-SALEM, NC	11/29/78 MOUSTON, TX	12/07/78 ROCKFORD, 1L	12/08/78 HASTINGS, MH	12/18/78 CLEVELAND, OM	12/28/78 PORTLAND, OR	01/04/79 SACRAMENTO, CA
Rwy ID: Lgth:	Rwy ID: Lgth: 6599		Rwy ID: 33 Lgth: 6654	Rwy ID: 8 Lgth: 9400	Rwy ID: 36 Lgth: 8196	Rwy 10: Lgth:	Rwy ID: 36 L Lgth: 6411	Rwy ID: Lgth: 11014	Rwy ID: Lgth: 3954
Surface Type:	Surface Type: MACADAM		Surface Type: MACADAN	Surface Type: CONCRETE	Surface Type: MACADAM	Surface Type:	Surface Type: MACADAM	Surface Type: MACADAM	Surface Type: MACADAM
Category: OTHER	Category: 0THER		Category: VEER	Category: VEER	Category: L OFF	Category: OTHER	Category: VEER	Category: OTHER	Category: OTHER

Acft Mfr: LOCKHEED/188A	Acft Mfr: MANDLY-PAG/HP-137	Acft Mfr: SWEARINGEN/SA-226	Acft Mfr: AEROSTAR/601	Acft Mfr: BEECH/B-18	Acft Wfr: BEECH/E18-S	Acft Mfr: PIPER/PA-31	Acft Mfr: CESSNA/500	Acft Mfr: DOUGLAS/DC-9	Acft Mfr: FRAKES/M298
FAR Part: 121	FAR Part: 135	FAR Part: 135	FAR Part: 135	FAR Part: 135	FAR Part: 135	FAR Part: 135	FAR Part: 135	FAR Part: 121	FAR Part: 121
YDistance: L 70	YDistence: D L 135	YDistence: D L 60	YDistance: D L 132	YDistence: L UNK	YDistance: UNK	YDistance: UNK	YDistence: UNK	YDistance: L 825	YDistance: R 137
Owner Name: Operator Name/DBA: GREAT NORTHERN AIRLINES Rwy Surface Character: XDistance: 8	Owner Name: Operator Name/DBA: BIG SKY AIRLI Rwy Surface Character: XDistance: 84200	Owner Name: Operator Name/DBA: MIDSTATE AIRL Rwy Surface Character: XDistance: A 230 B 700	Owner Name: Operator Name/DBA: L.J.SIMMONS Rwy Surface Character: XDistance: 82300	Owner Name: Operator Name/DBA: SMB STAGELINE Rwy Surface Character: XDistance: UNK	Owner Name: Operator Name/DBA: GREAT WESTERN Rwy Surface Character: XDistance: UNK	Owner Name: Operator Name/DBA: WIMNIPESAUKEE Rwy Surface Character: XDistance: UNK	Owner Name: Operator Name/DBA: MIDNEST AIR C Rwy Surface Character: XDistance: A1300 B3375	Owner Name: Operator Name/DBA: EASTERN AIRLI Rwy Surface Character: XDistance: 5700APP	Owner Name: Operator Name/DBA: USAIR Rwy Surface Character: XDistance: 60
Arpt Name: INIGOK () Wid: Rwy Status: SNOW-COVERED Phase: LND	Arpt Name: MISSOULA COUNTY () Wid: 150 Rwy Status: SNOW-COVERED Phase: T/O	Arpt Name: ALEXANDRIA FIELD () Wid: 75 Rwy Status: SNOW-COVERED Phase: LND	Arpt Name: KENT COUNTY INTL () Wid: 150 Rwy Status: ICE COVERED Phase: LND	Arpt Name: CHICAGO-O'HARE () Wid: 150 Rwy Status: SHOW-COVERED Phase: LMD	Arpt Wame: CAPITAL () Wid: 150 Rwy Status: SNOW-COVERED Phase: T/O	Arpt Name: LACONIA () Wid: 150 Rwy Status: SNOW Phase: LMD	Arpt Name: LOGAN INTL () Wid: 150 Rwy Status: Phase: T/O	Arpt Name: DADE-COLLIER JET () Wid: Rwy Status: DRY Phase: T/O	Arpt Name: BENEDUM () Wid: Rwy Status: SNOW-COVERED Phase: 1/0
01/05/79 UMIAT, AK	01/15/79 MISSOULA, MT	01/15/79 WISCONSIN RPDS, WI	01/19/79 GRAND RAPIDS, HI	01/24/79 CHICAGO, 11	01/27/79 SPRINGFIELD, IL	01/31/79 LACOMIA, NH	02/07/79 BOSTON, MA	02/09/79 MIAMI, FL	02/12/79 CLARKSBURG, WV Rwy ID: Lgth: 5198 Surface Type: TWO OR MORE Category: OTHER
Rwy ID: Lgth: 5000	Rwy 10: 29 Lgth: 9500	Rwy ID: 20 Lgth: 4800	Rwy ID: 26 L Lgth: 7600	Rwy 10: 27 L Lgth: 10140	Rwy ID: 4 Lgth: 8000	Rwy ID: 8 Lgth: 5505	Rwy 1D: 9 Lgth: 7000	Rwy ID: Lgth: 10500	
Surface Type: MACADAM	Surface Type: MACADAM	Surface Type: MACADAM	Surface Type: MACADAM	Surface Type: COMCRETE	Surface Type: CONCRETE	Surface Type:	Surface Type: MACADAM	Surface Type: MACADAM	
Category: UMDER	Category: VEER	Category: VEER	Category: VEER	Category: VEER	Category: VEER	Category: VEER	Category: VEER	Category: OTHER	

Acft Mfr: BOEING/747	Acft Mfr: BOEING/727	Acft Mfr: BEECH/58	Acft Mfr: BEECH/E18S	Acft Wfr: DEHAVILLAN/DHC-6	Acft Wfr: BEECH/BE-70	Acft Mfr: NORD-AVION/262	Acft Wfr: DQUGLAS/DC-9	Acft Wfr: BEECH/E18S	Acft Mfr: BEECH/E18S
FAR Part: 121	FAR Part: 121	FAR Part: 135	FAR Part: 135	FAR Part: 135	FAR Part: 135	FAR Part: 135	FAR Part: 121	FAR Part: 135	FAR Part: 135
YDistance: D R 175	YDistance: 0	YDistance: R 228	YDistance: L1245	YDistance:	YDistance: R 700	YDistance:	YDistance: D L 125	YDistance: L 500	YDÍStance: UNK
Owner Name: Operator Name/DBA: Rwy Surface Character: XDistance: A4100 B5425	Owner Name: Operator Name/DBA: Rwy Surface Character: XDistance: 66	Owner Name: Operator Name/DBA: CATSKILL AIRU Rwy Surface Character: XDistance: 400	Owner Name: Operator Name/DBA: Rwy Surface Character: XDistance: 5565 APP	Owner Wame: Operator Name/DBA: ROCKY MOUNTA! Rwy Surface Character: XDistance: *INM ESE	Owner Name: Operator Name/DBA: UNIVERSAL AIR Rwy Surface Character: XDistance: 500	Owner Name: Operator Name/DBA: SWIFT AIRE LI Rwy Surface Character: XDistance: *1.6NM	Owner Name: Operator Name/DBA: EASTERN AIRLINES Rwy Surface Character: XDistance: A4000 B6000	Owner Name: Operator Name/DBA: GREAT WESTERN Rwy Surface Character: XDistance: 350	Owner Name: Operator Name/DBA: BURL AIR FREI Rwy Surface Character: XDistance: UNK
Arpt Wame: O'HARE INTL () Wid: 150 Rwy Status: Phase: LND	Arpt Name: MIANI INTL () Wid: Rwy Status: Phase: LND	Arpt Name: ONEONTA MUNICIPA () Wid: Rwy Status: UNK/NR	Arpt Name: INDIANAPOLIS INT () Wid: Rwy Status: DRY Phase: I/O	Arpt Name: CHEYENNE MUNI () Wid: Rwy Status: Phase: 1/0	Arpt Name: GULFPORT-BILOXI () Wid: Rwy Status: Phase: T/O	Arpt Name: LOS ANGELES INTL () Wid: Rwy Status: Phase: T/O	Arpt Name: LAMBERT-ST LOUIS () Wid: 200 Rwy Status: WET Phase: LND	Arpt Name: CEDAR RAPIDS MJM () Wid: Rwy Status: SLUSH COVERED Phase: 1/0	Arpt Name: OHARE INTL () Wid: Rwy Status: DRY Phase: T/O
02/15/79 CHICAGO, 1L	02/15/79 MIAMI, FL	02/24/79 ONEONTA, NY	02/27/79 INDIANAPOLIS, IN	02/27/79 CHEYENNE, UY	03/01/79 GULFPORT, MS	03/10/79 MARINA DEL REY, CA	03/22/79 ST LOUIS, MO	03/23/79 CEDAR RAPIDS, 1A	04/03/79 CHICAGO, 1L
Rwy ID: 9 R Lgth: 10140	Rwy ID: Lgth: 9601	Rwy ID: Lgth: 3400	Rwy ID: Lgth: 7600	Rwy ID: Lgth: 4997	Rwy ID: Lgth: 5700	Rwy ID: Lgth:	Rwy ID: 12 R Lgth: 10018	Rwy 1D: Lgth: 5450	Rwy ID: Lgth: 10140
Surface Type:	Surface Type: COMCRETE	Surface Type: MACADAM	Surface Type: CONCRETE	Surface Type:	Surface Type:	Surface Type:	Surface Type: CONCRETE	Surface Type: MACADAM	Surface Type: COMCRETE
Category: VEER	Category: UNDER	Category: UMDER	Category: OTHER	Category: OTHER	Category: OTHER	Category: OTHER	Category: VEER	Category: OTHER	Category: OTHER

Acft Mfr: BEECH/E-18	Acft Mfr: BEECN/D-18	Acft Mfr: BEECH/65-A80	Acft Wfr: DOUGLAS/DC-10	Acft Mfr: AERO COMDR/680-FL	Acft Mfr: DEHAVILLAN/DHC-6	Acft Mfr: CESSWA/180	Acft Mfr: DEHAVILLAN/DH 104	Acft Mfr: DEHAVILLAN/DHC-6	Acft Mfr: DEHAVILLAN/DH-114
FAR Part: 135	FAR Part: 135	FAR Part: 135	FAR Part: 121	FAR Part: 135	FAR Pert: 135	FAR Pert: 135	FAR Part: 135	FAR Pert: 121	FAR Part: 135
YDistance: UNK	YDistance: UNK	YDistance: UMK	YDistance: L1100	YDistence: UNK	YDistence:	YDistence: UNK	YDistence: D R 275	YDistance: 0	YDistance: R 792
Owner Name: Operator Name/DBA: PROVIDENCE AI Rwy Surface Character: XDistance: *.25M	Owner Name: Operator Name/DBA: ALII AIR HAWA Rwy Surface Character: XDistance: 1500	Owner Name: Operator Name/DBA: YOSEMITE AIR Rwy Surface Character: XDistance: UNK	Owner Name: Operator Name/DBA: AMERICAN AIRLINES Rwy Surface Character: XDistance: 4500	Owner Name: Operator Name/DBA: COMBS AIRWAYS Rwy Surface Character: XDistance: 800	Owner Name: Operator Name/DBA: DOWNEAST AIRL Rwy Surface Character: XDistance: *1.2M	Owner Name: Operator Name/DBA: WESTERN YUKON Rwy Surface Character: XDistance: UNK	Owner Name: Operator Name/DBA: MIDWEST AIR C Rwy Surface Character: XDistance: A2800	Owner Name: Operator Name/DBA: AIR NEW ENGLA Rwy Surface Character: XDistance: 9000	Owner Name: Operator Name/DBA: PRINAIR Rwy Surface Character: XDistance: 5500 APP
Arpt Name: STEWART () Wid: Rwy Status: DRY Phase: 1/0	Arpt Name: MOLOKA! () Wid: Rwy Status: WET Phase: 1/0	Arpt Mame: SAN FRANCISCO IN () Wid: 200 Rwy Status: Phase: LMD	Arpt Name: CHICAGO-O'HARE () Wid: Rwy Status: DRY Phese: 1/0	Arpt wame: SKY HARBOR INTL () Lid: Rwy Status: Phase: LWD	Arpt wame: KNOX COUNTY RGNL () Wid: Rwy Status: Phase: LND	Arpt Name: ST MARYS () Wid: 150 Rwy Status: WET Phase: T/0	Arpt Name: LAMBERT () Wid: 150 Rwy Status: DRY Phase: LND	Arpt Name: BARNSTABLE MUN; () Wid: Rwy Status: WET Phase: LND	Arpt Name: ALEX HAMILTON () Wid: Rwy Status: Phase: T/O
04/04/79 NEWBURG, NY	04/16/79 MOLOKAI, HI	04/17/79 SAN FRANCISCO, CA	05/25/79 CHICAGO, 1L	05/29/79 PHOENIX, AZ	05/30/79 ROCKLAND, ME	06/09/79 SAINT MARYS, AK	06/11/79 ST LOUIS, MO	06/17/79 HYANNIS, MA	07/24/79 ST CROIX, VI
Rwy .D: Lgth: 6006	Rwy ID: Lgth: 4493	Rwy ID: 28 L Lgth: 10600	Rwy 1D: Lgth: 10003	Rwy ID: Lgth: 10300	Rwy ID: Lgth:	Rwy ID: 16 Lgth: 6000	Rwy ID: 24 Lgth: 7602	RWY ID: Lgh: 5563	Rwy ID: Lgth: 7612
Surface Type: MACADAM	Surface Type: MACADAM	Surface Type:	Surface Type: CONCRETE	Surface Type: MACADAM	Surface Type:	Surface Type: MACADAM	Surface Type: COMCRETE	Surface Type: MACADAM	Surface Type: MACADAM
Category: OTHER	Category: OTHER	Category: VEER	Category: 0THER	Category: UNDER	Category: OTHER	Category: VEER	Category: VEER	Category: OTHER	Category: OTHER

Acft Mfr: BRITTNORMA/BN-2A	Acft Mfr: BEECH/E18S	Acft Wfr: PIPER/PA-32	Acft Mfr: BEECH/58	Acft Mfr: BEECH/E18S	Acft Mfr: BRITTNORMA/BNZA-9	Acft Mfr: PIPER/PA-31	Acft Wfr: DQUGLAS/DC-8	Acft Mfr: BEECH/99	Acft Mfr: CONVAIR/580
FAR Part: 121	FAR Part: 135	FAR Part: 135	FAR Part: 135	FAR Part: 135	FAR Part: 135	FAR Part: 135	FAR Part: 121	FAR Part: 135	FAR Part: 121
YDistance: L UNK	YDistance: L UNK	YDistance: 0	YDistance: 0	YDistance: L1100	YDistence: UNK	YDistance: R1189	YDistance: D R 174	YDistance: UMK	YDistance: D L 125
Owner Name: Operator Name/DBA: MUNTZ NORTHERN AIRLINES Rwy Surface Character: XDistance: UNK	Owner Name: Operator Name/DBA: SKYWAY AVIATI Rwy Surface Character: XDistance: UNK	Owner Name: Operator Name/DBA: AIR CAROLINA Rwy Surface Character: XDistance: 2400	Owner Name: Operator Name/DBA: KEYSTONE AVIA Rwy Surface Character: XDistance: 8892	Owner Name: Operator Name/DBA: MOUNTAIN AIR Rwy Surface Character: XDistance: 2600	Owner Name: Operator Name/DBA: CRESTED BUTTE Rwy Surface Character: XDistance: A1300	Owner Name: Operator Name/DBA: COMAIR, INC. Rwy Surface Character: XDistance: 8695	Owner Name: Operator Name/DBA: BRANIFF INT/L Rwy Surface Character: XDistance: 86700	Owner Name: Operator Name/DBA: MESABA AIRWAY Rwy Surface Character: XDistance: UNK	Owner Name: Operator Name/DBA: REPUBLIC AIRLINES Rwy Surface Character: XDistance: A2000 B3000
Arpt Name: TIN CITY () Wid: 135 Rwy Status: UNK/NR Phase: LND	Arpt Name: FORNEY AAF () Wid: 150 Rwy Status: WET Phase: LND	Arpt Name: HICKORY MUNICIPA () Wid: Rwy Status: Phase: LND	Arpt Name: HARRISBURG INTL () Wid: Rwy Status: DRY Phase: LND	Arpt Name: BRADLEY INTL () Wid: Rwy Status: DRY Phase: T/O	Arpt Name: CRESTED BUTTE () Wid: 90 Rwy Status: DRY Phase: T/0	Arpt Name: GRTR CINCINNAT! () Wid: Rwy Status: DRY Phase: T/O	Arpt Name: TOCUMEN () Wid: 148 Rwy Status: WET Phase: LND	Arpt Name: MINNEAPOLIS-ST P () Wid: 150 Rwy Status: Phase: LND	Arpt Name: THIEF RIV FLS RE () Wid: 150 Rwy Status: SLUSH COVERED Phase: LND
07/25/79 TIN CITY, AK	07/25/79 FT WOOD, MO	08/21/79 HICKORY, NC	08/30/79 HIDDLETOWN, PA	09/19/79 SUFFIELD, CT	10/08/79 CRESTED BUTTE, CO	10/08/79 COVINGTON, KY	10/14/79 PANAMA CTY, PM	10/24/79 MINNEAPOLIS, MN	10/31/79 THIEF RIV FLS, MN
Rwy ID: 34 Lgth: 4700	Rwy IO: 14 Lgth: 5008	Rwy ID: Lgth: 6402	Rwy ID: Lgth: 9501	Rwy ID: Lgth: 5246	Rwy ID: 29 Lgth: 4500	Rwy ID: Lgth: 9500	Rwy ID: 3 R Lgth: 10000	Rwy 10: Lgth:	Rwy 10: 31 Lgth: 6500
Surface Type: GRAVEL	Surface Type: MACADAM	Surface Type: MACADAM	Surface Type: MACADAM	Surface Type: CONCRETE	Surface Type: GRAVEL	Surface Type: MACADAN	Surface Type: COMCRETE	Surface Type:	Surface Type: MACADAM
Category: VEER	Category: VEER	Category: OTHER	Category: OTHER	Category: OTHER	Category: VEER	Category: OTHER	Category: VEER	Category: VEER	Category: VEER

11/02/79 GREENVILLE, SC	Arpt Name: GREENVILLE DUNTW ()	Owner Name:	Acft Mfr: PIPER/PA-31
::	, Nid:	Operator Name/DBA: BANKAIR, INC	FAR Part: 135
Surface Type: MACADAM	Rwy Status: DRY	Rwy Surface Character:	,
Category: OTHER	Phase: T/O	XDistance: *1M NW APT	YDistance:
11/05/79 TAU, AS	Arpt Name: TAU ()	Owner Name:	Acft Mfr: DEHAVILLAN/DHC-6
::	Wid: 100	Operator Name/DBA: SOUTH PACIFIC	FAR Part: 135
Surface Type: CORAL	Rwy Status: DRY	Rwy Surface Character:	
Category: VEER	Phase: LND	XDistance: UNK	YDistance: UNK
11/16/70 TUSAYAM. A2	Arot Meme: GRAND CANYON ()	Oxyge:	Acft Mfr: MARTIN/404
		Operator Name/DBA:	FAR Part: 121
TVD- MACADAM	REV Status: DRY	Rwy Surface Character:	
Category: OTHER	Phase: 1/0	XDistance: 7531	YDistance: L2447
40 TOOGSSSS OC. /C. ++		Outro Bone.	ACET MET. CONVAID 2220
0.4/17 FREEFOR!, BA	בידי בפושני כ	Character Name/DRA: MACKEY INTERNATIONAL	EAR Part: 121
5	Buy Status:	REV Surface Character:	;
Category: VEER	Phase: LND	XDistance: A4000	YDistance: D L 225
01/17/80 LA CROSSE, 41	Arot Name: LA CROSSE MINI ()	Office Name:	Acft Mfr: BEECH/99
Rw 10: 31 Lath: 5298	Wid: 150	Operator Name/DBA: MISSISSIPPI V	FAR Part: 135
HACADAM	RW Status: SLUSH COVERED	Ray Surface Character:	
Category: VEER	Phase: LWD	XDistance: UNK	YDistance: UNK
ST.CROIX, VI	Arpt Name: ALEX HAMILTON ()	Owner Name:	Acft Mfr: PIPER/PA-31
Rwy 10: Lgth: 7612	¥id:	Operator Name/DBA: EASTERN CARIB	FAR Part: 135
Surface Type: MACADAM	Rwy Status: DRY	Rwy Surface Character:	•
Category: OTHER	Phase: T/O	XDistance: *1.5M SSE	YDistance:
12/20/80 MOAR UT	Arot Name: CANYONI ANDS (2)	Owner Name:	Acft Mfr: PIPER/PA-31
•	Zid:	Operator Name/DBA: TRANSUESTERN	FAR Part: 135
Type: MACADAM	Rwy Status: DRY	Rwy Surface Character:	
Category: OTHER	Phase: 1/0	XDistance: 963	YDistance: 0
03/06/80 SOUTH MAKNEK, AK	A TOT MARKET STORY OF THE COLUMN AND COLUMN		Acft Mfr: CESSNA/207
Rwy 10: 30 Lgth: 2600		Operator Name/DBA: KODIAK WESTER	FAR Part: 135
GRAVEL		Rwy Surface Character:	
Category: VEER	Phase: LWD	XDistance: A 870 B1680	YDistance: D R 135
03/17/80 BATON ROUGE, LA	Arot Name: RYAN ()	Owner Name:	Acft Mfr: DOUGLAS/DC-9
••		Operator Name/DBA: TEXAS INTERNATIONAL AIRLINES	FAR Part: 121
17pe: 0	Rwy Status: WET	4.	
Category: OVER	Phase: LND	XDistance: 350	YDistance: R 200
03/21/80 HOUSTON, TX	Arot Name: WILLIAM P.HOBBY ()	Owner Name:	Acft Mfr: PIPER/PA-31
Ruy 10: Lgth: 7602	¥id:	Operator Name/DBA: EAGLE COMMUTE	FAR Part: 135
NCRETE	Rwy Status: DRY	Rwy Surface Character:	1
Category: OTHER	Phase: 1/0	XDistance: 6500 APP	YDistance: R1275

05/12/80 FORT WORTH, TX	Arpt Name: MANGHAM ()	Owner Name:	Acft Mfr: PIPER/PA-31
Rwy ID: Lgth: 250	rid:	Operator Name/DBA: ASAP AIR INC	FAR Part: 135
1ype:	Rwy Status: WET	Rwy Surface Character:	
Category: OTHER	Phase: 1/0	XDistance: 500	YDistance: UNK
ALDER CREEK,	Arpt Name: ALDER CREEK ()	Owner Name:	Acft Mfr: CESSNA/207
RMY ID: Lgth: 1800	Wid:	Operator Name/DBA: AIR NORTH	FAR Part: 135
Category: OTHER	MWY Status: ROUGH Phase: T/O	XMV SUTACE LABRACTET: XDistance: UNK	YDistance: UNK
06/19/80 ATLANTA, GA	Arot Name: HARTSFIELD INT!	Outer Name	Act Mfr. SID AVN/SE-210
RNY 10: 26 Lgth: 10000	Vid: 150	Operator Name/08A: AIRBORNE EXPRESS	FAR Part: 121
Surface Type: CONCRETE Category: VEER	Rwy Status: DRY Phase: LND	Rwy Surface Character: XDistance: A2100 B4526	YDistance: D L 250
08/20/20			
Prov. 10: 12th: 8500	Arpt Mane: Arrem C - HOMFSON ()	Connect Name:	ACTT MITT: AERO COMDR/680V
Type: MACADAM	RMy Status: WET	Uperator Mame/DBA: ASIRO WINGS I RMy Surface Character:	FAR Part: 155
Category: OTHER	Phase: LMD	XDistance: *1.5M	YD istance:
07/21/80 TUSAYAN, AZ	Arpt Name: GRND CYN MATL PK ()	Owner Name:	Acft Mfr: CESSNA/404
Rwy 10: Lgth: 8999		Operator Name/DBA: SCENIC AIRLIN	FAR Part: 135
Surface Type: MACADAM	Rwy Status: DRY	Rwy Surface Character:	
Category: OTHER	Phase: 1/0	XDistance: *3M S APT	YDistance:
07/25/80 PHILADELPHIA, PA	Arpt Name: PHILADELPHIA INT ()	Owner Name:	Acft Mfr: PIPER/PA-31
Rwy ID: Lgth: 9500	Vid:	Operator Name/DBA: AIR PENNSYLVA	FAR Part: 135
Surface Type: MACADAM Category: UNDER	Rwy Status: DRY Phase: LND	Rwy Surface Character: XDistance: 300	YDistance: L 480
08/20/80 HARTFORD, CT	Arbt Name: HARTFORD-BRAINAR ()	October Manne:	Acft Mfr: DIDEB/PA-23
Rwy ID: Lgth: 3869		Operator Name/DBA: CORPORATE AIR	FAR Part: 135
Surface Type: MACADAM	Rwy Status: WET	Rwy Surface Character:	
Category: OVER	Phase: LMD	XDistance: 49	YDistance: 0
KILLEEN, TX	Arpt Name: KILLEEN MUNI ()	Owner Name:	Acft Mfr: SWEARINGEN/SA226
Ruy 10: Lgth: 4445	Vid:	Operator Name/DBA: <10 AIRWAYS,	FAR Part: 135
Surface Type: MACADAM	Rwy Status: DRY	٥	
Category: UNDER	Phase: LKD	XDistance: 15	YDistance: 0
FAIRBANKS, AI	Arpt Name: FAIRBANKS INTL ()	Owner Name:	Acft Mfr: CESSNA/207
Rwy ID: Lgth: 3200	vid:	Operator Name/DBA: AURORA AIR SE	FAR Part: 135
Surface Type: MACADAM	Rwy Status: DRY	4.	
Lategory: Uther	rnase: 1/0	XD1stance: 600	YDistance: L 150
WICHITA FALLS	Arpt Name: WICHITA FALLS MU ()	Owner Name:	Acft Mfr: DEHAVILLAN/DHC-6
Rwy ID: Lgth: 7000	vid:	Operator Name/DBA: RIO AIRLINES	FAR Part: 135
Surface Type: MACADAM Category: OTHER	Rwy Status: DRY Phase: 1/0	RMy Surface Character: XDistance: 2800 Abo	781
		יאוסופועני דכככ טיי	ירוטימולה. כוז

Acft Mfr: CESSNA/207	Acft Mfr: BOEING/727	Acft Mfr: BOEING/727	Acft Mfr: BEECH/99A	Acft Mfr: BEECH/G18S	Acft Mfr: PIPER/PA-28R	Acft Mf: DENAVILLAN/DHC-6	Acft Wfr: PIPER/PA-31	Acft Wfr: BEECH/99	Acft Mfr: BOEING/737
FAR Part: 135	FAR Part: 121	FAR Part: 121	FAR Part: 135	FAR Part: 135	FAR Part: 135	FAR Part: 135	FAR Part: 135	FAR Part: 135	FAR Part: 121
YDistance: UNK	YDistence: D L 475	YDistance: 0	YDistance:	TDistance: D L 150	YDistence: UNK	YDistance: D L 50	YDistance: UMK	YDistance: R UNK	YDistance: D R 115
Owner Name: Operator Name/DBA: KODIAK WESTER Rwy Surface Character: XDistance: UMK	Owner Name: Operator Name/DBA: BRANIFF AIRWAYS Rwy Surface Character: XDistance: A4700 B6000	Owner Name: Operator Name/DBA: CONTINENTAL AIRLINES Rwy Surface Character: XDistance: 13	Owner Name: Operator Name/DBA: CASCADE AIRUA Rwy Surface Character: XDistance: *4.5NM	Owner Name: Operator Name/DBA: SUN INTERNATI Rwy Surface Character: XDistance: A3500	Owner Mame: Operator Name/DBA: BANKAIR INC. Rwy Surface Character: XDistance: UNK	Owner Name: Operator Name/DBA: EVERGREEN HEL Rwy Surface Character: XDistance: 8 945	Owner Name: Operator Name/DBA: DESERT PACIFI Rwy Surface Character: XDistance: UNK	Owner Name: Operator Name/DBA: PIONEER AIRWA Rwy Surface Character: XDistance: UNK	Owner Name: Operator Name/DBA: AIR CALIFORNIA Rwy Surface Character: XDistance: A 900 82070
Arpt Name: LEVELOCK () Wid: Rwy Status: DRY Phase: T/O	Arpt Name: NEWARK INTL () Wid: 150 Rwy Status: Phase: LND	Arpt Name: YAP () wid: Rwy Status: WET Phase: LND	Arpt Name: SPOKANE INTL () Wid: Rwy Status: UNK/NR Phase: LND	Arpt Name: PUERTO RICO INTL () Wid: 200 Rwy Status: DRY Phase: LND	Arpt Name: SPARTANBURG () Wid: Rwy Status: DRY Phase: T/O	Arpt Name: AMBLER () Wid: 80 Rwy Status: SNOW-COVERED Phase: T/O	Arpt Name: ERNEST A. LOVE () Wid: Rwy Status: DRY Phase: LND	Arpt Name: HALL COUNTY () Wid: 150 Rwy Status: DRY Phase: LND	Arpt Name: JOHN WAYNE () Wid: 150 Rwy Status: UNK/NR Phase: LMO
09/29/80 LEVELOCK, AK	11/11/80 NEWARK, NJ	11/21/80 YAP,WEST CARO IS, TO	01/20/81 SPOKANE, WA	01/28/81 SAN JUAN, PR	02/02/81 ROEBUCK, SC	02/03/81 AMBLER, AK	02/10/81 PRESCOTT, AZ	02/13/81 GRAND ISLAND, NE	02/17/81 SANTA ANA, CA
Rwy ID: Lgth: 1880	Rwy ID: 4 R Lgth: 8200	Rwy ID: Lgth: 4820	Rwy ID: Lgth: 9000	Rwy 10: 25 Lgth: 10002	Rwy ID: Lgth: 5203	Rwy ID: 36 Lgth: 2200	Rwy 1D: Lgth: 7600	Rwy ID: Lgth: 7189	Rwy ID: 19 R Lgth: 5700
Surface Type: DIRT	Surface Type:	Surface Type: TWO OR MORE	Surface Type: MACADAM	Surface Type: MACADAM	Surface Type: MACADAM	Surface Type: GRAVEL	Surface Type: MACADAM	Surface Type: MACADAM	Surface Type: MACADAM
Category: OTHER	Category: VEER	Category: UNDER	Category: OTHER	Category: VEER	Category: OTHER	Category: VEER	Category: OTHER	Category: VEER	Category: VEER

Acft Mfr: BEECH/E18S FAR Part: 135 YDistance: L UNK	Acft Mfr: PIPER/PA-31 FAR Part: 135 YDistance: 0	Acft Wfr: BEECH/H18 FAR Part: 135 YDistance: 0	Acft Wfr: BEECH/95-C55 FAR Part: 135 YDistance:	Acft Mfr: NIMON/YS-11A FAR Part: 121 YDistance: 0	Acft Wfr: PIPER/PA-31 FAR Part: 135 YDistance:	Acft Mfr: CESSNA/207A FAR Part: 135 YDistence: UNK	Acft Mfr: CESSNA/R182 FAR Part: 135 YDistance: R UMK	Acft Mfr: BEECH/B99 FAR Part: 135 YDistance: L UMK	Acft Wfr: PIPER/PA-23 FAR Part: 135
Owner Name: Operator Name/DBA: COKER AIRFREI Rwy Surface Character: XDistance: UNK	Owner Name: Operator Name/DBA: GREEN HILLS A Rwy Surface Character: XDistance: 5100	Owner Name: Operator Name/DBA: AIR PENNSYLVA Rwy Surface Character: XDistance: 154	Owner Name: Operator Name/DBA: AERODYNE,INC Rwy Surface Character: XDistance: *7M SW API	Owner Name: Operator Name/DBA: REEVE ALEUTIAN AIRWAYS Rwy Surface Character: XDistance: 10	Owner Name: Operator Name/DBA: EAGLE AIRLINE Rwy Surface Character: XDistance: "IM E APT	Owner Name: Operator Name/DBA: COASTAL AVN Rwy Surface Character: XDistance: UMK	Owner Name: Operator Name/DBA: MUTUAL AIR EX Rwy Surface Character: XDistance: UNK	Owner Name: Operator Name/DBA: ROYALE AIRLIN Rwy Surface Character: XDistance: UNK	Owner Name: Operator Name/DBA: AIR TAXI SERV Rwy Surface Character:
Arpt wame: LUBBOCK INTL () Wid: 150 Rwy Status: DRY Phase: LND	Arpt Name: CLARENCE CANNON () Wid: Rwy Status: UNK/NR Phase: LMD	Arpt Name: HAZELTON MUNI () Wid: Rwy Status: SMOW-COVERED Phase: I/O	Arpt Mame: EAU CLAIRE MUNI () Wid: Rwy Status: Phase: LMD	Arpt Name: SAND POINT () Wid: Rwy Status: DRY Phase: LMD	Arpt Name: MOBBY () Lid: Rwy Status: Phase: T/O	Arpt Name: MARSHALL () Wid: Rwy Status: ROJGH Phese: LMD	Arpt Name: DYESS AFB () Wid: Rwy Status: OTHER Phase: LMD	Arpt Mame: SHREVEPORT RGNL () Wid: 200 Rwy Status: DRY Phase: T/O	Arpt Name: MIAMI INTL () Wid: 200 Rwy Status: DRY
02/18/81 LUBBOCK, TX Rwy ID: 8 Lgth: 8001 Surface Type: COMCRETE Category: VEER	03/04/81 KIRKSVILLE, MO Rwy ID: Lgth: 6004 Surface Type: COMCRETE Category: OTHER	03/11/81 NAZELTON, PA Rwy ID: Lgth: 4900 Surface Type: MACADAM Category: OVER	03/26/81 EAU CLAIREI, WI Rwy ID: Lgth: 7300 Surface Type: Category: OTHER	04/18/81 SAND POINT, AK Rwy ID: Lgth: 3800 Surface Type: GRAVEL Category: UNDER	04/26/81 HQUSTON, TX Rwy ID: Lgth: Surface Type: Category: OTHER	05/09/81 MARSHALL, AK Rwy ID: Lgth: 1400 Surface Type: TWO OR MORE Category: OVER	06/16/81 ABILENE, TX Rwy ID: Lgth: Surface Type: COMCRETE Category: VEER	06/17/81 SHREVEPORT, LA Rwy ID: 14 Lgth: 7300 Surface Type: MACADAM Category: VEER	06/22/81 MIAMI, FL Rwy 10: 9 L Lgth: 10500 Surface Type: MACADAM

Acft Mfr: BEECH/65-80 FAR Pert: 135 YDistance: UNK	Acft Wfr: BOEING/727 FAR Part: 121 YDistance: L 215 Acft Mfr: BEECH/A36	FAR Part: 135 YDistance: D L 70 Acft Mfr: CURTIS-WR7/C-46 FAR Part: 121 YDistance: D L 275	ACFE WFF: BOEING/737-222 FAR Part: 121 SCHEDULED YDistance: ACFE WFF: CONVAIR/440 FAR Part: 135 SCHEDULED	ACÉT MÉR: MCDONNELL DOUGLAS/DC-10-30 FAR Part: 121 SCHEDULED YDistence: L 110	Acft Wfr: BEECH/99 FAR Part: 135 SCHEDULED YDistance: 0 Acft Wfr: WCDONWELL-DOUGLAS/DC-10-10	FAR Part: 121 SCHEDULED YDistance: R 25 Acft Mfr. ageing/R77-244	FAR Part: 121 TDistance: UNK
Owner Name: Operator Name/DBA: OCEAN AIR INC Rwy Surface Character; XDistance: UNX		Operator Name/DBA: MARTINAIRE, I Rwy Surface Character: XDistance: UNK Owner Wame: Operator Name/DBA: CARIBBEAN AIR Rwy Surface Character: XDistance: UNK	Owner Name: AIR FLORIDA, INC Operator Name/DBA: Rwy Surface Character: FULLY GROOVED XDistance: *.75 MM Owner Name: EMISSARY AIRMAYS, INC. Operator Name/DBA: ISLAND AIRLINES HAWAII INC. Rwy Surface Character:	Owner Name: WORLD AIRWAYS, INC. Operator Name/DBA: Rwy Surface Character: XDistance: 250	Owner Name: PILGRIM AIRLINES Operator Name/DBA: PILGRIM AIRLINES Rwy Surface Character: ROUGH TEXTURE XDistance: 850	Operator Name/DBA: UNITED AIRLINES INC. Rwy Surface Character: FULLY GROOVED XDistance: 1220 Charac Name: COMMECTICNT RAWK & TRIST CO.	Operator Name: Control Brus a INCSI CO. Operator Name/DBA: AIRCAL RMy Surface Character: XDistance: UNK
Arpt Name: ALEXANDER HAMLTO () Wid: 150 Rwy Status: DRY Phase: LND	Arpt Name: FT.LAUDERDALE () Wid: Rwy Status: WET Phase: 1/0 Arpt Name: DRAKE ()	Wid: 100 Rwy Status: DRY Phase: LND Arpt Name: SAM JUAN INTL () Wid: 150 Rwy Status: WET Phase: LND	Arpt Name: () Wid: 150 Rwy Status: SNOW-WET Phase: T/O Arpt Name: HONOLULU INTL () Wid: Rwy Status:	Arpt Name: BOSTON-LOGAN INTER'L () Wid: 150 Rwy Status: WET	Arpt Wame: GROTOM-NEW LONDON (GOM) Wid: 150 Rwy Status: WET Phase: LWD Arpt Wame: PHILADELPHIA INTL (PHL)	Vid: 150 Rwy Status: WET Phase: T/O Arch Mame: LOS ANGELES INT/L (LAX)	Ary Status: Phase: LND
06/26/81 ST.CROIX, VI Rwy 10: 9 Lgth: 7612 Surface Type: CONCRETE Category: VEER	Lauderdal. Lgth: e: Macadan rer	Rwy ID: 16 Lgth: 6006 Surface Type: MACADAM Category: VEER 12/30/81 SAM JUAN, PR Rwy ID: 28 Lgth: 8016 Surface Type: CONCRETE Category: VEER	01/13/82 WASHINGTON, DC RNY 10: 36 Lgth: 6869 Surface Type: ASPHALT Category: OTHER 01/17/82 HONOLULU, HI RNY 10: Lgth: Surface Type:	O1/23/82 BOSTON, MA RNY 10: 15 Lgth: 9191 Surface Type: CONCRETE Category: OVER	02/01/82 GROTOW, CT RWY ID: 5 Lgth: 5000 Surface Type: ASPHALT Category: UNDER 02/03/82 PHILADELPHIA, PA	Rwy 10: 9 Lgth: 9500 Surface Type: ASPHALT Category: OVER	~ ~ %

Acft Mfr: NIHON/YS-11A	Acft Mfr: BOEING/8-727-200	Acft Mfr: SWEARINGEN/SA-227	Acft Mfr: SWEARINGEN/SA226IC	Acft Mfr: BOEING/727-200	Acft Mfr: DEHAVILLAND/DHC-6-200	Acft Mfr: GULFSTREAM AMERICAN/G-159C	Acft Mfr: BAC/1-11-204AF	Acft Mfr: CONVAIR/240	Acft Mfr: GRUMMAN/G-159C
FAR Part: 121 SCHEDULED	FAR Part: 121 SCHEDULED	FAR Part: 135 SCHEDULED	FAR Part: 135 SCHEDULED	FAR Part: 121 SCHEDULED	FAR Part: 135 SCHEDULED	, IRAR Part: 121 SCHEDULED	FAR Part: 121 SCHEDULED	FAR Part: 121 SCHEDULED	FAR Part: 121 SCHEDULED
YDistance: UNK	YDistance: UNK	YDistance: R UNK	YDistance: R UNK	YDistance: D L 75	YDistance: 0	YDistance: UNK	YDistance: D R 90	YDistance: UNK	YDistance: UNK
Owner Name: REEVE ALEUTIAN	Owner Name: MEXICANA AIRLINES	Owner Name: MIDSTATE AIRLINES	Owner Name: BRITT AIRWAYS, INC.	Owner Name: UNITED AIRLINES	Owner Name: GIFFORD AVIATION	Owner Name: U.S. AVIATION, INC. Operator Name/DBA: U.S. AVIATION, INC./AIR U.S., Rwy Surface Character: SMOOTH TEXTURE XDistance: 82550	Owner Name: U.S. AIR	Owner Name: PROVIDENCE AIRLINES CORPORATION	Owner Name: GULFSTREAM AMERICAN CORPORATION
Operator Name/DBA:	Operator Name/DBA:	Operator Name/DBA:	Operator Name/DBA:	Operator Name/DBA:	Operator Name/DBA:		Operator Name/DBA:	Operator Name/DBA:	Operator Name/DBA: U.S. AVIATION, INC.
Rwy Surface Character:	Rwy Surface Character: SMOOTH TEXTURE	Rwy Surface Character;	Rwy Surface Charecter:	Rwy Surface Character: FULLY GROOVED	Rwy Surface Charecter:		Rwy Surface Character: SMOOTH TEXTURE	Rwy Surface Character: SMOOTH TEXTURE	Rwy Surface Character:
XDistance: UNK	XDistance: 300	XDistance: UNK	XDistance: A1000	XDistance: 84800	XDistance: 1300		XDistance: A3500 B3800	XDistance: UNK	XDistance: 83000
Arpt Name: () Wid: Rwy Status: Phase: LND	Arpt Name: HARLINGEN IND.AIR PARK (HRL)	Arpt Name: O'HARE (ORD)	Arpt Name: O'HARE INTERNATIONAL (ORD)	Arpt Name: YOUNGSTOWN MUNICIPAL (YNG)	Arpt Name: MOOPER BAY (MPB)	Arpt Name: GILLETTE-CAMPBELL COUNTY (GCC)	Arpt Name: COX INTERNATIONAL (DAY)	Arpt Name: DETROIT METROPOLITAN (DTW)	Arpt Name: Gilette-CAMPBELL COUNTY (GCC)
	Wid: 150	Wid: 150	Wid: 200	Wid: 150	Wid: 100	Wid: 75	Wid: 150	Wid: 150	Wid: 75
	Rwy Status: WATER COVERED	Rwy Status: DRY	Rwy Status: DRY	Rwy Status: SWOW-WET	Rwy Status:	Rwy Status: ORY	Rwy Status: WET	Rwy Status: WET	Rwy Status: WET
	Phase: LND	Phase: LWD	Phase: T/O	Phase: LND	Phase: LWD	Phase: LND	Phase: LND	Phase: LND	Phase: LND
02/16/62 KING SALMON, AK	02/19/82 HARLINGEN, TX	02/24/82 CHICAGO, 1L	03/30/82 CHICAGO, 11	04/09/82 YOUNGSTOWN, OH	05/16/82 HOOPER BAY, AK	05/18/82 GILLETTE, WY	05/21/82 DAYTON, OH	05/29/82 DETROIT, MI	06/08/82 GILLETTE, WY
Rwy ID: Lgth:	Rwy ID: 17 Lgth: 8300	Rwy ID: 27 Lgth: 7400	Rwy ID: 32 Lgth: 11600	Rwy ID: 32 Lgth: 7492	Rwy 1D: 13 Lgth: 3600	Rwy 10: 15 Lgth: 6507	Rwy 1D: 18 Lgth: 6999	Rwy ID: 27 Lgth: 8700	Rwy 10: 33 Lgth: 6507
Surface Type:	Surface Type: CONCRETE	Surface Type: ASPHALT	Surface Type: COMCRETE	Surface Type: ASPHALT	Surface Type:	Surface Type: ASPHALT	Surface Type: ASPHALT	Surface Type: ASPHALT	Surface Type: ASPHALT
Category: OTHER	Category: OVER	Category: VEER	Category: VEER	Category: VEER	Category: UNDER	Category: VEER	Category: VEER	Category: L OFF	Category: VEER

Acft Mfr: DOUGLAS/DC-9-31	Acft Wfr: BOEING/727-235	Acft Mfr: BOEING/737-291	Acft Mfr: CESSNA/402	Acft Mfr: BEECH/G18S	Acft Mfr: FAIRCHILD/C-82	Acft Wfr: BOEING/727-223	Acft Wfr: PIPER/PA-32R-300	Acft Wfr: DOUGLAS/DC9-30	Acft Mfr: SWEARINGEN/SA-227AC
FAR Pert: 121 SCHEDULED	FAR Part: 121 SCHEDULED	FAR Part: 121 SCHEDULED	FAR Part: 135 SCHEDULED	FAR Part: 135 SCHEDULED	FAR Part: 121 MON-SCHEDULED	FAR Part: 121 SCHEDULED	FAR Pert: 135 SCHEDULED	FAR Part: 121 SCHEDULED	FAR Part: 135 SCHEDULED
YDistance: UNK	YDistance:	TDistance: R 100	YDistance: D L 50	YDistance: UNK	YDistence: 0	YDistance: E L 100	YDistance: UNK	YDistance: 0	YDistance: D R 160
Owner Name: REPUBLIC AIRLINES WEST, INC.	Owner Name: PAN AMERICAN WORLD A/W	Owner Name: FRONTIER AIRLINES	Owner Name: GREG HAUES	Owner Name: INDIANAPOLIS AIR CHARTER, INC.	Owner Name: WORTHERN AIR CARGO, INC. Operator Name/DBA: Rwy Surface Character: GROUND XDistance: 51	Owner Name: AMERICAN AIRLINES	Owner Name: LAYTON A . BENNETT	Owner Name: REPUBLIC AIRLINES, INC.	Owner Name: PIONEER AIRLINES
Operator Name/DBA:	Operator Name/DBA:	Operator Name/DBA:	Operator Name/DBA:	Operator Name/DBA:		Operator Name/DBA:	Operator Name/DBA:	Operator Name/DBA:	Operator Name/DBA:
Rwy Surface Character: SMOOTH TEXTURE	Rwy Surface Character: PORCUS	Rwy Surface Character: FULLY GROOVED	Rwy Surface Character: SMOOTH TEXTURE	Rwy Surface Character: FULLY GROOVED		Rwy Surface Character: FULLY GROOVED	Rwy Surface Character: SMOOTH TEXTURE	Rwy Surface Character:	Rwy Surface Character: SMOOTH TEXTURE
XDistance: 50	XDistance: *.75WM	XDistance: 2230	XDistance: A 220 81570	XDistance: 2700 APP		XDistance: A2000 C3400	XDistance: UNK	XDistance: 80	XDistence: A 400 B 850
Arpt Name: BOISE AIR TERMINAL (BOI) Wid: 190 Rwy Status: DRY Phase: 1/0	Arpt Name: () Wid: 150 Rwy Status: WET Phase: 1/0	Arpt Name: LEE BIRD FIELD (LBF) Wid: 150 Rwy Status: WET Phase: LND	Arpt Name: METRO () Wid: 100 Rwy Status: DRY Phase: 1/0	Arpt Name: INDIANAPOLIS INTERN. (IND) Wid: 150 Rwy Status: WET Phase: 7/0	Arpt Name: NELSON LAGOON (273) Wid: 100 Rwy Status: DRY Phase: LND	Arpt Name: ADAMS (LIT) Wid: 150 Rwy Status: WET Phase: LND	Arpt Name: GUSTAVUS (GST) Wid: 340 Rwy Status: SNOW-WET	Arpt Name: EMMET COUNTY AIRPORT (PLN) Wid: 150 Rwy Status: ICE COVERED Phase: LND	Arpt Name: GILLETTE CAMPBELLL COUNT (GCC) Wid: 75 Rwy Status: Phase: 1/0
07/05/82 BOISE, ID	07/09/82 NEW ORLEANS, LA	08/12/82 NORTH PLATTE, NE	09/02/82 FAIRBANKS, AK	09/17/82 INDIANAPOLIS, IN	11/04/82 NELSON LAGOON, AK	11/22/82 LITTLE ROCK, AR	11/26/82 GUSTAVUS, AK	12/18/82 PELLSTON, MI	12/20/82 GILLETTE, WY
Rwy ID: 28 Lgth: 9763	Rwy 10: 10 Lgth: 9227	Rwy ID: 30 Lgth: 8000	Rwy ID: 6 Lgth: 4600	Rwy ID: 31 Lgth: 7604	Rwy ID: 26 Lgth: 3100	Rwy 1D: 22 Lgth: 7012	Rwy ID: 1 Lgth: 5400	Rwy ID: 32 Lgth: 6512	Rwy 1D: 15 Lgth: 6500
Surface Type: ASPHALT	Surface Type: CONCRETE	Surface Type: COMCRETE	Surface Type: ASPHALT	Surface Type: ASPHALT	Surface Type: DIRT	Surface Type: COMCRETE	Surface Type: ASPHALT	Surface Type: ASPHALT	Surface Type: ASPHALT
Category: OVER	Category: OTHER	Category: L OFF	Category: VEER	Category: OTHER	Category: UNDER	Category: VEER	Category: OVER	Category: OVER	Category: VEER

Acft Mfr: SWEARINGEN/SA-226TC FAR Part: 135 SCHEDULED YDistance: D L 100	Acft Mfr: CESSNA/207A FAR Part: 135 SCHEDULED YDistance: UNK Acft Mfr: CONVAIR/580-11-A FAR Part: 121 SCHEDULED	121 SC 121 SC 121 SC 121 SC	TDISTANCE: N 11U Acft Wfr: CESSNA/207A FAR Part: 135 SCHEDULED YDISTANCE: UNK Acft Wfr: DEMAVILLAND/DHC-6-300 FAR Part: 135 SCHEDULED YDISTANCE:	Acft Mfr: DOUGLAS/DC-4-C558 FAR Part: 121 SCHEDULED YDistance: R5280	Acft Wfr: PIPER/PA-31-350 FAR Part: 135 SCHEDULED YDistance:	Acft Mfr: BEECH/H18S FAR Part: 135 SCHEDULED YDistance:
Owner Name: GATX THIRD AIRCRAFT CORP. Operator Name/DBA: Rwy Surface Character: SMOOTH TEXTURE XDistance: B3500	Owner Name: HAROLDS AIR SERVICE Operator Name/DBA: HAROLDS AIR SERVICE Rwy Surface Character: ROUGH TEXTURE XDistance: 2650 CO () Owner Name: Operator Name/DBA: REPUBLIC AIRLINES, INC. Anistance: Datacter:	Owner Name: UNITED AIRLINES Operator Name/DBA: Rwy Surface Character: FULLY GROOVED XD istance: 8800 Owner Name: EASTERN AIRLINES Operator Name/DBA: Rwy Surface Character:	AUISTANCE: 1830 Owner Name: BETHEL VENTURES D/B/A Operator Name/DBA: RMY Surface Character: XDistance: UMK Owner Name: SIERRA PACIFIC AIRLINES Operator Name/DBA: RMY Surface Character: XDistance: *1.7M SE APT	Owner Name: PACIFIC AIR EXPRESS Operator Name/DBA: Rwy Surface Character: XDistance: 6120	Owner Name: SILVER KRIS SERVICES LTD. Operator Name/DBA: Rwy Surface Character: XDistance: *IM SSE APT	Owner Name: AIRTOUR ACQUISITION CORP. Operator Name/DBA: PANORAMA AIRTOUR Rwy Surface Character: XDistance: *1M NW APT
Arpt Name: KINGSLEY FIELD () Wid: 150 Rwy Status: SNOW-DRY Phase: T/O	Arpt Name: ANIAK (ANI) Wid: 150 Rwy Status: Phase: T/O Arpt Name: BRAINERD CROW WING CO () Wid: 150 Rwy Status: ICE COVERED SNOW-COMPACTED SLUSH Phase: IMD	Arpt Name: DETROIT METRO (DTW) Wid: 200 Rwy Status: DRY Phase: 1/0 Arpt Name: GREENVILLE-SPARTANBURG (GSP) Wid: 150 Rwy Status: DRY	Arpt Name: KWIGILLINGOK (AKB) Wid: 35 Rwy Status: SWOW-DRY Phase: T/O Arpt Name: FRIEDMAN MEMORIEL () Wid: 100 Rwy Status: Phase: LND	Arpt Name: KAMULUI (OGG) Wid: Rwy Status: Phase: LWD	Arpt Name: BYRD INTERNATIONAL (RIC) Wid: 150 Rwy Status: DRY Phase: LND	Arpt Name: KEAHOLE (KOA) Wid: Rwy Status: Phase: I/O
12/22/82 KLAMATH FALLS, OR Rwy 10: 14 Lgth: 10301 Surface Type: CONCRETE Category: VEER	01/07/83 ANIAK, AK RAY ID: 28 Lgth: 6000 Surface Type: Category: OTHER 01/09/83 BRAINERD, MN RAY ID: 23 Lgth: 6500 Surface Type: ASPHALT	01/11/83 DETROIT, MI Rwy 1D: 21 R Lgth: 10501 Surface Type: CONCRETE Category: OTHER 02/07/83 GREER, SC Rwy 1D: 3 Lgth: 7600 Surface Type: CONCRETE	Category: L OFF 02/09/83 KWIGILLINGOK, AK Rwy 10: 15 Lgth: 2300 Surface Type: GRAVEL Category: VEER 02/15/83 HAILEY, 1D Rwy 10: 31 Lgth: 6600 Surface Type: Category: OTHER	06/29/83 KAMULUI, HI Rwy ID: Lgth: Surface Type: Category: OTHER	07/26/83 RICHMOND, VA Rwy ID: 33 Lgth: 8999 Surface Type: ASPHALT Category: OTHER	09/08/83 KAILUA-KONA, HI RNY ID: Lgth: Surface Type: Category: OTHER

Acft Wfr: BEECH/C99	Acft Wfr: BOEING/727-225A	Acft Mfr: CONVAIR/440	Acft Wfr: DQUGLAS/DC-9-31	Acft Wfr: MCDONNELL-DOUGLAS/DC-10-30CF	Acft Mfr: CANADAIR/CL44D4	Acft Wfr: FOKKER/F27-100	Acft Mfr: SWEARINGEN/SA227-AC	Acft Wfr: MCDONNELL DOUGLAS/DC-8-61	Acft Mfr: NIHON/YS-11
FAR Part: 135 SCHEDULED	FAR Part: 121 SCHEDULED	FAR Part: 121 SCHEDULED	FAR Part: 121 SCHEDULED	FAR Part: 129 SCHEDULED	FAR Pert: 121 MOM-SCHEDULED	FAR Part: 121 SCHEDULED	FAR Part: 135 SCHEDULED	FAR Part: 121 SCHEDULED	FAR Part: 121 SCHEDULED
YDistance: UNK	YDistance: D R 175	YDistance: D L 100	YDistance: UMK	YDistance: R 40	YDistance: D R 900	YDistance: D R 179	YDistance: D L 85	YDistance: UNK	YDistance: D L 140
Owner Name: BEECH ACCEPTANCE CORP., INC. Operator Name/DBA: AIR VERMON) Rwy Surface Character: XDistance: A4000	Owner Name: CONNECTICUT NATIONAL BANK Operator Name/DBA: EASTERN AIRLINES Rwy Surface Character: XDistance: 810502	Owner Name: COMBS AIRWAYS Operator Name/DBA: Rwy Surface Character: PORGUS XDistance: 84700	Owner Name: OZARK AIR LINES, INC Operator Name/DBA: Rwy Surface Character: XDistance: 84125	Owner Name: KOREAN AIR LINES Operator Name/DBA: Rwy Surface Character: XDistance: 1434	Owner Name: AIRCRAFT MARKETING, INC. Operator Name/DBA: BLUE BELL, INC. Rwy Surface Character: XDistance: A4200 B5200	Owner Name: PILGRIM AIRLINES Operator Name/DBA: Rwy Surface Character: XDistance: A6600 87200	Owner Name: COMMUTER AIRLINES OF CO. Operator Name/DBA: TRANS COLORADO AIRLINE Rwy Surface Character: XDistance: A170082300	Owner Name: UNITED AIRLINES, INC. Operator Name/DBA: Rwy Surface Character: XDistance: 8 400	Owner Name: TRANSCENTRAL AIRLINE CORP. Operator Name/DBA: Rwy Surface Character: XDistance: A2800
Arpt wame: BURLINGTON INTL (BTV)	Arpt Weme: MIAMI INTL (MIA)	Arpt Name: SWEETWATER COUNTY (RKS)	Arpt Name: JOE FOSS FIELD (KF3)	Arpt Wame: ANCHORAGE INT'L. (ANC)	Arpt Name: LOGAN INT'L (BOS)	Arpt Name: KENNEDY (KJF)	Arpt Name: LA PLATA COUNTY (DRO)	Arpt Name: O'HARE IAP (ORD)	Arpt Name: TULSA INT'L (TUL)
Wid: 150	Wid: 150	Wid: 150	Wid: 150	Wid: 200	Wid: 150	Wid: 150	Wid: 150	Wid: 150	Wid: 200
Rwy Status: DRY	Rwy Status: DRY	Rwy Status: SWOW-COMPACTED	Rwy Status: SNOW-DRY	Rwy Status: ICE COVERED SNOW-COMPACTED	Rwy Status: SWOM-DRY	Rwy Status:	Rwy Status: ICE COVERED SNOW-DRY	Rwy Status: WET	Rwy Status: DRY
Phase: LND	Phase: LND	Phase: LND	Phase: LND	Phase: T/O	Phase: LWD	Phase: LWD	Phase: LND	Phase: T/O	Phase: LMD
10/06/83 BURLINGTON, VT	11/11/63 MIAMI, FL	12/19/83 ROCK SPRINGS, WY	12/20/83 SIOUX FALLS, SD	12/23/83 ANCHORAGE, AK	01/01/84 EAST BOSTON, MA	01/13/84 JAMAICA, NY	01/14/84 DURANGO, CO	01/23/84 CHICAGO, IL	02/15/84 TULSA, OK
Rwy 1D: 33 Lgth: 7870	Rwy 10: 9 R Lgth: 13002	Rwy 1D: 27 Lgth: 10000	Rwy 10: 3 Lgth: 6999	Rwy 1D: 24 R Lgth: 10600	Rwy ID: 4 L Lgth: 7860	Rwy ID: 4 L Lgth: 11351	Rwy 1D: 2 Lgth: 9200	Rwy 10: 9 L Lgth: 7416	Rwy ID: 17 L Lgth: 10000
Surface Type: ASPHALT	Surface Type: ASPHALT	Surface Type: ASPHALT	Surface Type: COMCRETE	Surface Type: ASPHALT	Surface Type: ASPHALT	Surface Type: ASPHALT	Surface Type: ASPHALT	Surface Type: ASPHALT	Surface Type: ASPHALT
Category: VEER	Category: VEER	Category: VEER	Category: VEER	Category: OVER	Category: VEER	Category: VEER	Category: VEER	Category: VEER	Category: VEER

VI 4214141 18185150			,
0000 1447 1 0 7 10 10000	AFDE MEMORI JOHN F REMNEUT INIL (JFR.)	OWNER Mame: DEI NOKSKE LUFIFARTSSLESKAB	Actt Mfr: MCDONNELL DOUGLAS/DC-10-30
Confede Tames Applies	WIG: 150	Operator Name/DBA: SCANDINAVIAN AIRLINES	FAR Part: 129 SCHEDULED
Category: OVER	FMY Status: WEI	KWy Surtace Character: XDistance: 560	YDistance: 0
05/27/84 HICKORY, NC	Arot Mage: WICKORY (HKY)	Outset Name Chartel States Aviation on	7. C.
	U71 - PIN	Operator Note (1984) Alberton and	TAN THE CENTRAL TOTAL
S ASPHALT	Ruy Status: VET	Per Sinface Character.	TAK PART: 135 SCREDULED
Category: OVER	Phase: LND	XDistance: 240	YDistance: UNK
06/13/84 DETROIT MI	Arat Mass. DEIDOIT MEIDO (DIU)	200 March 211 - 122 C	
	TIPL AGE OF ACT ACT OF	CARRY AGREE US AIR, INC.	ACTT MIT: MCDONNELL DOUGLAS/DC-9-31
Surface Type: CONCRETE	Rev Status: LET	Operator name/usA: Rwy Surface Character: BOMSH TEXTUBE 5111 / CDOWNED	FAR Part: 121 SCHEDULED
Category: VEER	Phase: LND	XDistance: 86300	YDistance: D L 200
06/23/84 CHICAGO, 11	Arot Name: O'HARF INT! (OBD)	Outer Memo: Toanculung albuays	SECT TOTAL STATE STATE
~	Wid: 150	Cherator Mane/DBA:	SET MIT: BUEING//U/-325C
Surface Type: CONCRETE	Rwy Status: WET	Rev Surface Character:	יאר דפו ני וכי אבחרטטונט
Category: OVER	Phase: LND	XDistance: 900	YDistance: 0
06/29/84 GRAND ISLAND, NE	Arpt Mame: HALL COUNTY REGIMAL (GRI)	Owner Name: LIMITED RANK OF DENVED NAT!	Act Mer. Curablucew.ca227.ac
Rwy 10: 17 Lgth: 7001		Operator Name/DRA: DIOMER AIDUAY INC (DIOA)	FAD Dart: 145 SCHENNER
Surface Type: ASPHALT	Rev Status: DRY	PLY Surface Character:	יאר ישו ני ישו שהתחברה
Category: VEER	Phase: 1/0	XDietaco INC)
		75 - 9 - 9 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -	TOTSCARCE: ONE
<u></u>	Arpt Name: STAPLETON INT'L (DEN)	Owner Name: AMERICAN AIRLINES, INC.	Acft Mfr: BOEING/727-23
Rwy 10: 26 L Lgth: 10010	Wid: 150	Operator Name/08A:	FAR Part: 121 SCHEDULED
Surface Type: CONCRETE	Rwy Status: DRY	RWy Surface Character: FULLY GROOVED	
Category: VEER	Phase: LND	XDistance: B8100	YDistance: D L 105
07/21/84 TAU MANUA ISL AS	Acot Name: TAIL (HIZ)	And 191 Office Date of the same	
Rwy 10: 36 Lgth: 2170	Wid: 100	Office Name / DRA COURT DECAUD	ACTT HTT: DEMAVILLAND/DHC-6-500
DIRT	RWY Status: DRY	REV Surface Character:	TAR POLICE 133 SCHEDOLED
Category: L OFF	Phase: LND	XDistance: 500	YDistance: L 85
08/02/84 VIEQUES, PR	Arpt Name: VIEQUES (VQS)	Owner Name: VIEOUES AIR LINK. INC	ACT MET BDITTEN MODMAN/BN-24 121 ANDES
Rwy ID: 9 Lgth: 2500	wid: 73	Operator Name/DBA: VIEQUES AIR LINK, INC.	FAR Part: 135 SCHEDULED
Surface Type: ASPHALT	Rwy Status: DRY	Rwy Surface Character:	
Category: OTHER	Phase: 1/0	XDistance: UNK	YDistance: UNK
MAPLES, FL	Arpt Name: MAPLES MUNI (APF)	Owner Name: PROVINCETOWN-BOSTON AIRLINES	Acft Mfr: CESSNA/402C
Rwy ID: 4 Lgth: 5000	Wid: 150	Operator Name/DBA: PROVINCETOWN-BOSTON AIRLINES	FAR Part: 135 SCHEDULED
Surface Type: ASPHALT	Rwy Status: DRY	Rwy Surface Character:	
Category: OTHER	Phase: 1/0	XDistance: *3.5M NE APT	YDistance:
ATLAN	Arpt Name: HARTSFIELD AIRPORT (ATL)	Owner Name: HRS TEXTILES, INC.	Acft Mfr: PIPER/PA-31T3
Rwy ID: 8 Lgth: 10000	Wid: 150	Operator Name/DBA: PEE DEE AIR EXPRESS, INC	FAR Part: 135 SCHEDULED
Surface Type: CONCRETE	Rwy Status: DRY	Rwy Surface Character:	
Category: UNDER	Phase: LMD	XDistance: 1500	YDistance: L 379

Acft Mfr: DEHAVILLAND/DHC-6-300 FAR Part: 135 SCHEDULED YDistance: L UMK	Acft Mfr: MCDONNELL-DOUGLAS/DC-9-30 FAR Part: 121 SCHEDULED YDistance: R 81	Acft Mfr: CESSNA/T207A FAR Part: 135 SCHEDULED YDistance: Acft Mfr: FAIRCHILD-SWEARINGEN/SA 227	FAR Part: 121 SCHEDULED YDistance: E R 60	Acft Mfr: EMBRAER BANDEIRANTE/EMB-110P1 FAR Part: 135 SCHEDULED YDistence: R 85	Acft Mfr: PIPER/PA-31-350 FAR Part: 135 SCHEDULED YDistance:	Acft Mfr: CONVAIR/440 FAR Part: 121 NON-SCHEDULED YDistance: D R 50	Acft Mfr: CESSNA/U206 FAR Part: 135 SCHEDULED YDistance: D L 60	Acft Wfr: PIPER/PA-23-250 FAR Part: 135 SCHEDULED YDistance:	Acft Mfr: LOCKHEED/188C FAR Part: 121 NON-SCHEDULED YDistance: R3960
Owner Name: METROFLIGHT INC. Operator Name/DBA: METROFLIGHT, INC. Rwy Surface Character: XDistance: UNK	Owner Name: US AIR Operator Name/DBA: Rwy Surface Character: ROUGH TEXTURE XDistance: 5200	Owner Name: ELLIS F. GARDNER Operator Name/DBA: SEDONA AIR CENTER Rwy Surface Character: SMOOTH XDistance: *.5M S APT Owner Name: HOUSTON ACFT LEASING	Operator Name/DBA: CASCADE AIRWAYS, INC. Rwy Surface Character: SMOOTH XDistance: A2335 C3600	Owner Name: PROVINCETOWN-BOSTON AIRLINES Operator Name/DBA: PROVINCETOWN-BOSTON AIRLINES Rwy Surface Character: XDistance: 7800	Owner Name: VINCENT J. FINAZZO Operator Name/DBA: SOUTHERN EXPRESS AIRWAYS,INC. Rwy Surface Character: XDistance: *.5M	Owner Name: FLIGHT TRAILS Operator Name/DBA: FLIGHT TRAILS Rwy Surface Character: XDistance: A1000 B3000	Owner Name: BAKER AVIATION, INC Operator Name/DBA: BAKER AVIATION, INC. Rwy Surface Character: XDistance: A3660 B3900	Owner Wame: FORD-AIRE, INC. Operator Name/DBA: SUSQUEHANNA AIRLINES, INC. Rwy Surface Character: XDistance: *.85M N API	Owner Name: CONSOLIDATED CARRIER INT'L Operator Name/DBA: GALAXY AIRLINES, INC. Rwy Surface Character: XDistance: 7920
Arpt Name: HOUSTON INTERNATIONAL (IAH) Wid: 100 Rwy Status: DRY Phase: LND	Arpt Name: ERIE INT'L (ERI) Wid: 150 Rwy Status: DRY Phase: LND	Arpt Name: SEDONA (SEZ) Wid: Rwy Status: Phase: LND Arpt Name: PULLMAN-MOSCOM (PUW)	Wid: 100 Rwy Status: SNOW-WET Phase: LND	Arpt Name: JACKSONVILLE INT'L (JAX) Wid: 150 Rwy Status: DRY Phase: T/O	Arpt Name: MIAMI INTERNATIONL (MI) Wid: 150 Rwy Status: DRY Phase: LND	Arpt Name: WALKER COUNTY (LO2) Wid: 100 Rwy Status: DRY Phase: LND	Arpt Name: POINT HOPE (PHO) Wid: 100 Rwy Status: SWOW-DRY Phase: T/O	Arpt Name: SIDNEY (N23) Wid: 75 Rwy Status: DRY Phase: LND	Arpt Name: RENO CANNON INTL (RNO) Wid: 150 Rwy Status: DRY Phase: T/O
09/29/84 HOUSTON, TX Rwy ID: 14 R Lgth: 6048 Surface Type: CONCRETE Category: VEER	10/14/84 ERIE, PA Rwy 1D: 24 Lgth: 6500 Surface Type: ASPHALT Category: L OFF	10/18/84 SEDONA, AZ Rwy ID: Lgth: Surface Type: Category: OTNER	Rwy 10: 23 Lgth: 6731 Surface Type: ASPHALT Category: VEER	12/06/84 JACKSONVILLE, FL Rwy ID: 31 Lgth: 7700 Surface Type: ASPHALT Category: OTHER	12/12/84 MIANI, FL Rwy ID: 12 Lgth: 9600 Surface Type: ASPHALT Category: 07MER	12/16/84 JASPER, AL Rwy 10: 27 Lgth: 4800 Surface Type: MACADAM Category: VEER	12/17/84 POINT MOPE, AK Rwy ID: 19 Lgth: 4000 Surface Type: GRAVEL Category: VEER	12/17/84 BAINBRIDGE, NY Rwy ID: 7 Lgth: 4220 Surface Type: ASPHALT Category: OTHER	01/21/85 RENO, NV RNY 1D: 16 R Lgth: 9000 Surface Type: COMCRETE Category: OTHER

Acft Mfr: LOCKHEED/188C	Acft Mfr: SWEARINGEN/SA-227	Acft Mfr: BEECH/65-A80	Acft Mfr: MCDONNELL-DOUGLAS/DC-9-15	Acft Mfr: DOUGLAS/DC-3	Acft Mfr: CESSNA/4028	Acft Mfr: MCDONNELL DOUGLAS/DC-9	Acft Mfr: FAIRCHILD/SA-227AC	Acft Mfr: CESSNA/402C	Acft Mfr: PIPER/PA-31-310
FAR Part: 121 SCHEDULED	FAR Part: 135 SCHEDULED	FAR Part: 135 SCHEDULED	FAR Part: 121 SCHEDULED	FAR Part: 121 SCHEDULED	FAR Part: 135 SCHEDULED	FAR Part: 121 SCHEDULED	FAR Part: 135 SCHEDULED	FAR Part: 135 SCHEDULED	FAR Part: 135 SCHEDULED
YDistance: D R 220	YDistance: 0	YDistance:	YDistance: UNK	YDistence: 0	YDistance:	YDistance: L 91	YDistance: R UNK	YDistance: UNK	YDistance: L 192
Owner Name: TRANSAMERICA AIRLINES, INC. Operator Name/DBA: GALAXY AIR LINES,INC. Rwy Surface Character: ROUGH TEXTURE XDistance: A4200 84200	Owner Name: UNITED PARCEL SERVICE CO. Operator Name/DBA: SAT-AIR, INC. Rwy Surface Character: XDistance: 260	Owner Name: WORTH PACIFIC AIRLINES Operator Name/DBA: WORTH PACIFIC AIRLINES Rwy Surface Character: SMOOTH XDistance: *1.5M SE APT	Owner Name: AIRBORNE EXPRESS, INC. Operator Name/DBA: Rwy Surface Character: XDistance: UNK	Owner Name: BO-S-AIRE AIRLINES, INC. Operator Name/DBA: BO-S-AIRE AIRLINES, INC. Rwy Surface Character:	Owner Mame: ALTUS AIRLINE, INC Operator Name/DBA: ALTUS AIRLINE, INC. Rwy Surface Character: XDistance: *1.5 MNE	Owner Name: Operator Name/DBA: OZARK AIR LINES,INC. Rwy Surface Character: XDistance: 900	Owner Name: GENERAL ELECTRIC CREDIT CORP Operator Name/DBA: HORIZON AIRLINES, INC. Rwy Surface Character: XDistance: A3500	Owner Name: TRANS AIR, INC. Operator Name/DBA: TRANS AIR, INC. Rwy Surface Character: XDistance: UNK	Owner Name: RICHARD K. & DAWN DERRIDINGER Operator Name/DBA: NANTUCKET AIRCRFT MAIN.,INC. Rwy Surface Character: XDistance: 3711
Arpt Name: DOBBINS AFB (MGE)	Arpt Name: LONDON-CORBIN (LOZ)	Arpt Name: SOLDOTNA (SXQ)	Arpt Name: PHILADELPHIA INTL (PHL)	Arpt Name: CHARLOTTE/DOUGLAS (CLT)	Arpt Name: ALTUS AFB (LTS) Wid: Rwy Status: DRY Phase: LND	Arpt Name: Willard (CMI)	Arpt Name: FRIEDMAN MEMORIAL (SUN)	Arpt Name: FT. LAUDERDALE INT'L (FLL)	Arpt Name: NANTUCKET (ACK)
Wid: 300	Wid: 150	Wid: 130	Wid: 150	Wid: 150		Wid: 150	Wid: 100	Wid: 100	Wid: 50
RMY Status: DRY	Rwy Status: WET	Rwy Status: SNGW-COMPACTED	Rwy Status: SNOW-COMPACTED	Rwy Status: ICE COVERED		Rwy Status: SNOW-DRY	Rwy Status: DRY	Rwy Status: DRY	Rwy Status: WET
Phase: LND	Phase: LND	Phase: LND	Phase: T/O	Phase: LND		Phase: LMD	Phase: LND	Phase: LND	Phase: LND
01/29/85 DOBBINS AFB, GA	01/31/85 LONDON, KY	02/04/85 SOLDOTMA, AK	02/05/85 PHILADELPHIA, PA	02/05/85 CHARLOTTE, NC	02/06/85 ALTUS, OK	02/10/85 CHAMPAIGN, IL	03/08/85 MAILEY, 'D	03/30/85 FT. LAUDERDALE, FL	04/06/85 NANTUCKET, MA
Rwy ID: 29 Lgth: 10000	Rwy ID: 5 Lgth: 6000	Rwy ID: 25 Lgth: 4973	Rwy ID: 9 L Lgth: 9500	Rwy ID: 18 L Lgth: 7845	Rwy ID: 17 Lgth:	Rwy ID: 31 Lgth: 8100	Rwy ID: 31 Lgth: 6600	Rwy 1D: 9 Lgth: 5316	Rwy 1D: 24 Lgth: 6303
Surface Type: COMCRETE	Surface Type: ASPHALT	Surface Type: MACADAM	Surface Type: CONCRETE	Surface Type: COMCRETE	Surface Type:	Surface Type: COMJRETE	Surface Type: ASPMALT	Surface Type: ASPMALT	Surface Type: ASPHALT
Category: VEER	Category: OVER	Category: OTNER	Category: OTHER	Category: OVER	Category: OTHER	Category: L OFF	Category: VEER	Category: VEER	Category: OTHER

Acft Mfr: BOEING/737-300 FAR Part: 121 SCHEDULED YDistance: L UNK	Acft Mfr: BEECH/E18S FAR Part: 135 SCHEDULED YDistance: R 600	Acft Mfr: PIPER/PA-31-350 FAR Part: 135 SCHEDULED YDistance:	ACT MIT: GULNINEAN/G-139 FAR Part: 121 SCHEDULED YDistance: L1720	Acft Mfr: GENERAL DYNAMICS/240-27 FAR Part: 121 NON-SCHEDULED YDistance: L2000	Acft Mfr: MCDONNELL DOUGLAS/DC-10-10 FAR Part: 121 SCHEDULED YDistance: L 160	Acft Mfr: LOCKHEED/L-1011-385-1 FAR Part: 121 SCHEDULED YDistance: L 360	Acft Mfr: CESSNA/4028 FAR Part: 135 SCHEDULED YDistance: 0	Acft Mfr: BEECH/99 FAR Part: 135 SCHEDULED YDistance: R 441	Acft Wfr: BRITISH AEROSPACE/BAC 1-11-20 FAR Part: 121 SCHEDULED YDistance: 0
Owner Name: SOUTHWEST AIRLINES CO. Operator Name/DBA: Rwy Surface Character: XDistance: 87500	Owner Name: INTERNATIONAL AIRCRAFT CORP. Operator Name/DBA: AIRSOUTH, INC. Rwy Surface Character: XDistance: 5900	Owner Name: CLMBERLAND AIRLINES Operator Name/DBA: CLMBERLAND AIRLINES Rwy Surface Character: XDistance: *3.8M SE APT	Owner Name: IAu Operator Name/DBA: GENERAL AVIATION, INC. Rwy Surface Character: XDistance: 100	Owner Name: PROVIDENCE AIRLINE CORP. Operator Name/DBA: Rwy Surface Character: XDistance: 5280	Owner Name: AMERICAN AIRLINES, INC. Operator Name/DBA: Rwy Surface Character: XDistance: 62	Owner Name: DELTA AIRLINES, INC. Operator Name/DBA: Rwy Surface Character: FULLY GROOVED XDistance: 6336	Owner Name: MIDWEST AVIATION CORP. Operator Name/DBA: Rwy Surface Character: XDistance: 1500	Owner Name: BAR HARBOR AIRLINES Operator Name/DBA: Rwy Surface Character: POROUS SMOOTH XDistance: 3246	Owner Name: SEC. PACIFIC COM LEASING INC. Operator Name/DBA: AIR WISCONSIN Rwy Surface Character: XDistance: UNK
Arpt Name: AMARILLO INTL (AMA) Wid: 300 Rwy Status: WET RUBBER DEPOSITS Phase: LND	Arpt Name: PALM BEACH INTL (PBI) Wid: 150 Rwy Status: DRY Phase: LND	Arpt Name: WESTMORELAND COUNTY (LBE) Wid: 100 Rwy Status: WET Phase: LND	Arpt Name: MASNVILLE MEIKO (BNA) W'd: 150 Rwy Status: DRY Phase: T/O	Arpt Name: MERCER COUNTY (TTN) Wid: 150 Rwy Status: DRY Phase: 1/0	Arpt Name: LUIS MUNOZ MARIN INT'L (SJV) Wid: 200 Rwy Status: DRY Phase: T/O	Arpt Name: DALLAS/FORT WORTH INTL (DFW) Wid: 150 Rwy Status: WET Phase: LND	Arpt Name: QUAD CITY (MLI) Wid: 150 Rwy Status: DRY Phase: LMD	Arpt Name: AUBURN-LEWISTON MUNI () Wid: 75 Rwy Status: WET Phase: LND	Arpt Name: AUSTIN STRAUBEL FLD (GRB) Wid: 150 Rwy Status: Wet Phase: LND
04/28/85 AMARILLO, TX Rwy 1D: 4 Lgth: 13502 Surface Type: ASPHALT Category: VEER	05/06/85 WEST PALM BCN, FL Rwy ID: 13 Lgth: 6930 Surface Type: ASPHALT Category: L OFF	05/17/85 LATROBE, PA Rwy ID: 23 Lgth: 5501 Surface Type: ASPHALT Category: OTHER	Category: OTHER	06/19/85 WEST TRENTON, NJ Rwy 10: 24 Lgth: 6006 Surface Type: CONCRETE Category: OTHER	06/27/85 SAN JUAN, PR Rwy 1D: 8 Lgth: 10002 Surface Type: ASPHALT Category: OVER	08/02/85 DALLAS/FT WORT, TX Rwy ID: 17 L Lgth: 11388 Surface Type: COMCRETE Category: OTHER	08/07/85 MOLINE, IL Rwy ID: 27 Lgth: 6507 Surface Type: ASPHALT Category: UNDER	08/25/85 AUBURN, ME Rwy ID: 4 Lgth: 5000 Surface Type: ASPHALT Category: OTHER	08/28/85 GREEN BAY, WI Rwy 10: 36 Lgth: 6000 Surface Type: CONCRETE Category: OVER

1-11-20

Acft Mfr: DOUGLAS/DC-9-14	Acft Mfr: BOEING/B-727	Acft Mfr: BOEING/737-2x6C	Acft Mfr: CESSNA/208	Acft Wfr: CESSWA/C-207	Acft Wfi: FAIRCHILD/SA226TC	Acft Mfr: MCDONNELL DOUGLAS/DC-10-10	Acft Mfr: DEHAVILLAND/DHC-6	Acft Mfr: BOEING/727-223 FAR Part: 121 SCHEDULED YDistance: 0	Acft Mfr: MCDONNELL-DOUGLAS/DC-9-31
FAR Pert: 121 SCHEDULED	FAR Part: 121	FAR Part: 121 SCHEDULED	FAR Part: 135 SCHEDULED	FAR Part: 135 SCHEDULED	FAR Part: 135 SCHEDULED	FAR Part: 121 SCHEDULED	FAR Part: 135 SCHEDULED		FAR Part: 121 SCHEDULED
YDistence: R1040	YDistance: UNK	YDistance: 0	YDistance: R1993	YDistance: L 45	YDistance: E L 85	YDistance: L 40	YDistance: UNK		YDistance: L 86
Owner Name: MIDWEST EXPRESS AIRLINES,INC.	Owner Name:	Owner Name: MARKAIR, INC.	Owner Name: HERMENS AIR, INC.	Owner Name: RYAN AIR SERVICE	Owner Name:	Owner Name: WILMINGTOM TRUST COMPANY TRUS	Owner Name:	Owner Name: AMERICAN AIRLINES, INC.	Owner Name: US AIR, INC. Operator Name/DBA: US AIR, INC. Rwy Surface Character: FULLY GROOVED XDistance: 180
Operator Name/DBA:	Operator Name/DBA: EASTERN AIRLINES	Operator Name/DBA:	Operator Name/DBA: HERMENS AIR, INC.	Operator Name/DBA: RYAN AIR SERVICE	Operator Name/DBA: BRITT AIRWAYS	Operator Name/DBA: AMERICAN AIRLINE, INC.	Operator Name/DBA: ERA HELICOPTERS, INC.	Operator Name/DBA:	
Rwy Surface Character: SMOOTH FULLY GROOVED	Rwy Surface Character:	Rwy Surface Character: POROUS ROUGH TEXTURE	Rwy Surface Character:	Rwy Surface Character: ROUGH TEXTURE	Rwy Surface Character:	Rwy Surface Character: FULLY GROOVED	Rwy Surface Character: ROUGH TEXTURE	Rwy Surface Character; FULLY GROOVED	
XDistance: 1320	XDistance: 580	XDistance: 72	XDistance: 931	XDistance: 256	XDistance: A2950 C4825	XDistance: 449	XDistance: A1000 B1000	XDistance: 440	
Arpt Name: GENERAL MITCHELL FIELD (MKE)	Arpt Name: WASHINGTON NATIONAL (DCA)	Arpt Name: UNALASKA (DUT)	Arpt Name: BETHEL (BET)	Arpt Name: NAPASKIAK (PKA)	Arpt Name: CLEVELAND-HOPKINS (CLE)	Arpt Name: DETROIT METROPOLITAN (DTW)	Arpt Name: MEKORYUK (MYU)	Arpt Name: RIO GRANDE VALLEY (HRL)	Arpc Name: ERIE INTL (KER)
Wid: 200	Wid: 150	Wid: 100	Wid: 150	Wid: 45	Wid: 150	Wid: 200	Wid: 50	Wid: 150	Wid: 150
Rmy Status: DRY	Rwy Status: DRY	Rwy Status: WET	Rwy Status: DRY	Rwy Status: SNOW-DRY SNOW-COMPACTED	Rwy Status: WET SNOW-COMPACTED	Rwy Status: ICE COVERED SNOW-COMPACTED	Rwy Status: ICE COVERED SNOW-DRY	Rwy Status: DRY	Rwy Status: SNOW-WET
Phase: T/O	Phase: T/O	Phase: LND	Phase: 1/0	Phase: LND	Phase: LND	Phase: LND	Phase: LND	Phase: LND	Phase: LND
09/06/85 MILWAUKEE, WI	09/24/85 WASHINGTON**, DC	09/25/85 UMALASKA, AK	11/01/85 BETHEL, AK	12/15/85 MAPASKIAK, AK	12/20/85 CLEVELAND, OH	01/02/86 DETROIT, MI	02/07/86 MEKORYUK, AK	02/08/86 MARLINGEN, TX	02/21/86 ERIE, PA
Rwy ID: 19 R Lgth: 9690	Rwy ID: 36 Lgth: 6869	Rwy ID: 12 Lgth: 3900	Rwy ID: 18 Lgth: 6399	Rwy ID: 19 Lgth: 2400	Rwy ID: 28 Lgth: 6015	Rwy ID: 21 C Lgth: 8500	Rwy 1D: 23 Lgth: 3500	Rwy ID: 17 R Lgth: 8300	Rwy 10: 24 Lgth: 6000
Surface Type: ASPHALT	Surface Type:	Surface Type: GRAVEL	Surface Type: ASPHALT	Surface Type: SNOW	Surface Type: ASPHALT	Surface Type: ASPHALT	Surface Type: CRAVEL	Surface Type: CONCRETE	Surface Type: ASPHALT
Category: OTHER	Category: OVER	Category: UNDER	Category: OTHER	Category: UNDER	Category: VEER	Category: OVER	Category: VEER	Category: UNDER	Category: OVER

CHARLESTON, SC	Arot Mane: CHARIFSTON AFR/INT! (CHA)	Ourse Name: CASTEBN A10 INC	TE O JOY OF LUIDO STRINGGOR STRING TO A STRING TO STRING
Rwy 10: 15 Lgth: 9001	Wid: 200	Operator Name/DBA:	FAD Dart: 121 SCHENIER
:	Rwy Status: WET	Rev Surface Character:	
Category: OVER	Phase: LND	XDistance: 369	YDistance: R 268
ALPENA, MI	Arpt Name: PHELPS-COLLINS (APN)	OWDER Name: IITAN PARTNERS	Art Mfr. EMBOAFD/FWB-11001
1 Lgth: 9001	Wid: 150	Operator Name/DBA: SIMMONS AIRLINES	FAR Part: 135 SCHEDULED
Surface Type: CONCRETE	Rwy Status: WET	Rwy Surface Character: ROUGH TEXTURE	
category: OTHER	Phase: LWD	XDistance: 7920	YDistance: L 300
LARAMIE, WY	Arpt Name: GENERAL BREES FIELD ARPT (LAR)	Owner Name: BEECHCRAFT ACCEPT. CORP. INC.	Acft Mfr: BEECH/BE-000
Rwy 10: 30 Lgth: 6300	Wid: 100	Operator Name/DBA: CENTENNIAL AIRLINES, INC	FAR Part: 135 SCHEDULED
Surface Type: ASPHALT Catagory: VEED	Rwy Status: WET	Rwy Surface Character: PORQUS	
נכא		XD1stance: A 800 B1800	YDistance: D L 244
CHINSON,	Arpt Name: HUTCHINSON (HUT)	Owner Name: AIR MIDNEST, INC.	Acft Mfr: SWEARINGEN/SA226
Rwy ID: 17 Lgth: 4250	via: 73	Operator Name/DBA:	FAR Part: 135 SCHEDULED
Surface Type: ASPHALT Category: VEED	Rwy Status: DRY	Rwy Surface Character: ROUGH TEXTURE	
נפא	רופטה: ראט	XDISTANCE: ATOUU BIDZO	YDistance: D L 50
BINGHAMTON, NY	Arpt Name: EDWIN A. LINK FIELD (BGM)	Owner Name: MASTERS & SUMPTER	Acft Mfr: PIPER/PA-60-600
Lgth:	Wid:	Operator Name/DBA: AIR CONTINENTAL, INC.	FAR Part: 135 SCHEDULED
Surface Type: GRASS/TURF	Rwy Status: DRY	Rwy Surface Character:	
Category: L OFF	Phase: LND	XDistance: UNK	YDistance: UNK
>	Arpt Name: YELLY AFB (KSK)	OWNER Name: TRANSAMERICA	Acft Mfr: LOCKHEED/382G
Rwy ID: 15 Lgth: 11550	Wid: 300	Operator Name/DBA: SOUTHERN AIR TRANSPORT	FAR Part: 121 NON-SCHEDULED
Surface Type: CONCRETE	Rwy Status: DRY	Rwy Surface Character:	
Category: UIMER	Phase: 1/0	XDistance: 7357	YDistance: L1599
CHARLOTTE, NC	Arpt Name: CHARLOTTE DOUGLAS INTL ()	Owner Name:	Acft Mfr: BOFING/737-222
Rwy ID: 36 R Lgth: 7845		Operator Name/DBA: PIEDMONT AIRLINES	FAR Part: 121 SCHEDULED
e: ASPHALT	Rwy Status: WET	Rwy Surface Character: FULLY GROOVED	
Category: OVER	Phase: LND	XDistance: 445	YDistance: 0
SAN JUAN, PR	Arpt Name: LUIS MUNUZMARIN INT'L (SJU)	Owner Name: METRO FLIGHT INC.	Andt men Demanicano Andrew
8 Lgth: 10000	Wid: 200	Operator Name/DBA: EASTERN METRO EXPRESS	FAR Part: 135 SCHEDULED
Surface Type: ASPHALT	Rwy Status: DRY	Rwy Surface Character:	
category: VEER	Phase: 1/0	XDistance: 81000	YDistance: D L 350
ISON, VI	Arpt Name: MADISON/DANE CNIY. (MSN)	Owner Name: MORTHWEST AIRLINES	Acft Mfr: DOUGLAS/DE9-51
Rwy ID: 18 Lgth: 9005	Wid: 150	Operator Name/DBA:	FAR Part: 121 SCHEDULED
Surface Type: ASPHALT	Rwy Status: SNOW-WET	Rwy Surface Character:	
Lategory: Wrek	Phose: Lab	XDistance: A3100 C4600	YDistance: £ L 95
A, 42	Arpt Name: YUMA (NT/L (YUM)	Owner Name: GENERAL ELECTRIC CREDIT CORP.	Acft Mfr: SWEARINGEN/SA227-AC
Rwy 10: 35 Lgth: 5170	Wid: 150	Operator Name/DBA: SKY WEST AIRLINES	FAR Part: 135 SCHEDULED
SULTACE TYPE: ASPHALL	KWY Status: DRY	RMY Surface Character: FULLY GROOVED	
K 11	בים מעוי ניפט	XDISTBICE: UKK	

Acft Wfr: BEECHCRAFT/99 FAR Part: 135 SCHEDULED YDistance: 0	Acft Wfr: BOEING/737-2A6	Acft Wfr: PIPER/PA-34-200	Acft Wfr: CASA/C-212-CC	Acft Wfr: CONVAIR/CV-580	Acft Mfr: CESSNA/C-402	Acft Wfr: CESSNA/402C	Acft Wfr: BOEING/707-351C	Acft Wfr: AIRBUS INDUSTRIES/A30084-203	Acft Mfr: MCDONNELL DOUGLAS/DC-9-10
	FAR Part: 121 SCHEDULED	FAR Part: 135 SCHEDULED	FAR Part: 135 SCHEDULED	FAR Part: 121 SCHEDULED	FAR Part: 135 SCHEDULED	FAR Part: 135 SCHEDULED	FAR Part: 121 SCHEDULED	FAR Part: 121 SCHEDULED	FAR Part: 121 SCHEDULED
	YDistance: D L 145	YDistance: D R 315	YDistance: L 674	YDistance: D L 300	YDistance: R7639	YDistance:	YDistance:	YDistance: 0	YDistance: R 130
Owner Name: CATSKILL AIRWAYS, INC. Operator Name/DBA: CATSKILL AIRWAYS,INC. Rwy Surface Character: SMOOTH XDistance: 10	Owner Name: AMERICA WEST AIRLINES, INC. Operator Name/DBA: Rwy Surface Character: XDistance: B3000	Owner Name: AIR SOUTH AIRLINES Operator Name/DBA: Rwy Surface Character: XDistance: UNK	Owner Name: Operator Name/DBA: FISHER BROTHERS AVIATION INC. Rwy Surface Character: XDistance: 1010	Owner Name: METRO FLIGHT INC. Operator Name/DBA: Rwy Surface Character: XDistance: A1770 82200	Owner Name: WILBUR'S FLIGHT OPERATIONS Operator Name/DBA: WILBUR'S INC. Rwy Surface Character: XDistance: 3932	Owner Name: Operator Name/DBA: BOSTOM/PROVINCETOWN AIRLINE Rwy Surface Character: XDistance: *.5M NE	Owner Name: Operator Name/DBA: BUFFALO AIRWAYS Rwy Surface Character: XDistance: *3M SW APT	Owner Name: CONTINENTAL AIRLINES, INC. Operator Name/DBA: Rwy Surface Character: FULLY GROOVED XDistance: 418	Owner Name: Operator Name/DBA: CONTINENTAL AIRLINES Rwy Surface Character: XDistance: 8257
Arpt Name: ONEONTA MUNICIPAL (N66) Wid: 75 Rwy Status: DRY Phase: LND	Arpt Name: DURANGO-LA PLATA (DRO) Wid: 150 Rwy Status: SNOW-COMPACTED Phase: LND	Arpt Name: MIAMI INT'L AIRPORT (MIA) Wid: 150 Rwy Status: DRY Phase: LWD	Arpt Name: DETROIT METROPOLITAN (DTW) Wid: 200 Rwy Status: Phase: LND	Arpt Name: DALLAS/FT. WORTH (DFW) Wid: 150 Rwy Status: WET Phase: T/O	Arpt Name: WERRILL (MRI) Wid: 100 Rwy Status: Phase: LMD	Arpt Name: () Wid: Rwy Status: Phase: LMD	Arpt Name: () Wid: Rwy Status: Phase: LMD	Arpt Mame: STAPLETON INT'L (DEW) Wid: 200 Rwy Status: DRY Phase: T/O	Arpt Name: () Wid: Rwy Status: Phase: T/O
02/11/87 ONEONTA, NY	02/25/87 DURANGO, CO	03/04/87 MIAMI, FL	03/04/87 DETROIT, MI	03/24/87 DALLAS, TX	04/01/87 ANCHORAGE, AK	04/12/87 HYANNIS, MA	04/13/87 KANSAS CITY, MO	08/03/87 DENVER, CO	11/15/87 DENVER, CO
Ruy 10: 24 Lgth: 3400	Rwy ID: 2 Lgth: 9200	Rwy 1D: 9 R Lgth: 13000	Rwy ID: 21 R Lgth: 10501	Rwy ID: 35 L Lgth: 11388	Rwy 1D: 24 Lgth: 4000	Rwy ID: Lgth:	Rwy ID: Lgth:	Rwy ID: 35 R Lgth: 12000	14/10: Lgth:
Surface Type: ASPHALT	Surface Type: ASPHALT	Surface Type: ASPHALT	Surface Type:	Surface Type: CONCRETE	Surface Type:	Surface Type:	Surface Type:	Surface Type: CONCRETE	Surface Type:
Category: UNDER	Category: VEER	Category: VEER	Category: L OFF	Category: VEER	Category: OTHER	Category: OTHER	Category: OTHER	Category: OVER	Category: OTHER

SCHEDULED

11/17/87 PORT ANGELES, MA	Arpt Name: WILLIAM FAIRCHILD INT'L (CLM)	Owner Name: BEECH ACCEPTANCE CORP., INC.	Acft Mfr: BEECH/99-A
Rwy 10: 26 Lgth: 5180	wid: 160	Operator Name/DBA: SAN JUAN AIRLINES	FAR Part: 135 SCHEDULE
Surface Type: ASPHALT	Rwy Status: DRY	Rwy Surface Character:	

Rwy Status: DRY Phase: LND Arpt Name: ATMAUTLUAK (08A) Wid: 80

Rwy 10: 15 Lgth: 2000 Surface Type: ICE

Category: OVER

11/18/87 ATMAUTLUAK, AK

Category: VEER

12/06/87 ATMAUTLUAK, AK Rwy ID: 33 Lgth: 2000 Surface Type: SNOW

Category: L OFF

Arpt Name: ATMAUTLAUK (08A) Rwy Status: DRY Phase: LND

Rwy Status: SNOW-DRY Phase: LND

Arpt Name: POCATELLO MUNI (PIH) Wid: 150

715/87 POCATELLO**, 10 Rwy 10: 3 Lgth: 9056

12/15/87

Operator Name/DBA: SKYWEST AIRLINES

Owner Name:

Rwy Surface Character:

XDistance: UNK

Owner Mame:

Rwy Surface Character:

XDistance: UNK

Rwy Status: Phase: LND Arpt Name: () Rwy Status: Phase: LND ä

12/17/87 CHANTILLY, VA

Category: VEER

Surface Type:

Lgth:

RMY Status: SNOW-DRY SNOW-COMPACTED Arpt Name: STAPLETON (DEN) Phase: LND Wid: 200

Rwy 10: 35 R Lgth: 12000 Surface Type: CONCRETE

Category: VEER

12/27/87 DENVER, CO

Category: OTHER

Surface Type: Rwy 10:

Owner Name: WILFRED RYAN Rwy Surface Character: XDistance: UNK

Operator Name/DBA: RYAN AIR SERVICE, INC Rwy Surface Character: XDistance: 110

Acft Mfr: CESSNA/208

Mistance: L UNK

FAR Part: 135 SCHEDULED FAR Part: 135 SCHEDULED Acft Mfr: CESSNA/207A YDistance: L 50 Operator Name/DBA: RYAN AIR SERVICE, INC. Owner Name: RYAN AIR SERVICE INC.

Acft Mfr: SWEARINGEN/SA-227SA YDictance: UNK

Acft Mfr: SWEARINGEN/SA-226 FAR Port: 135 SCHEDULED Mistance: 0 L 175 FAR Part: 135

Acft Mfr: MCDONNELL DOUGLAS/MD80 FAR Part: 121 SCHEDULED Mistance: Operator Name/DBA: CONTINENTAL AIRLINES, INC. Rwy Surface Character: ROUGH TEXTURE

Owner Name: CONTINENTAL AIRLINES, INC.

Wistance: 87000

Operator Name/DBA: AVAIR INCORPORATED Rwy Surface Character:

KDistance: *2.4M S

Mistance: D L 130

FAR Part: 135 Acft Mfr: PIPER/PA-31 Operator Name/DBA: PERKIOMEN AIR Rwy Surface Character: Owner Name: Arpt Name: CULEBRA () Rwy Status: DRY Lgth: 2200 CULEBRA IS, PR Surface Type: MACADAM Rey 10: 04/27/78

REMARKS: Visual meteorological conditions during daylight hours. No VASI. Investigator noted that it would be difficult to install a VASI because it would have to be offset due to curved approach through mountain pass. Aircraft encountered wind shear. Additional vertical guidance may have prevented this accident. YDistance: L 25 XDistance: 600 Phase: LWD

FAR Part: 121 Acft Mfr: LOCKHEED/188A Owner Name: Arpt Name: INIGOK () UMIAT, AK Rey 10: 01/05/79

Operator Name/DBA: GREAT NORTHERN AIRLINES Rwy Surface Character: Rwy Status: SNOW-COVERED Ë Lath: 5000 Surface Type: MACADAM Category: UNDER

XD istance: Phase: LND

REMARKS:

FAR Part: 121 Acft Mfr: BOEING/727 Rwy Surface Character: Operator Name/DBA: XD istance: Owner Name: Arpt Name: MIAMI INTL () Rwy Status: <u>ş</u> Lath: Surface Type: CONCRETE MIAMI, FL Category: UNDER Rwy 10: 02/15/79

Acft Mfr: BEECH/58 FAR Part: 135 YD istance: Operator Name/DBA: CATSKILL AIRW Rwy Surface Character: Owner Name: Arpt Name: ONEONTA MUNICIPA () Rwy Status: UNK/NR S Lgth: 3400 Surface Type: MACADAM ONEONTA, NY REMARKS: Rwy 10: 02/24/79

REMARKS: Instrument meteorological conditions. No VASI. Airframe icing. Doubtful that additional vertical guidance would have prevented this accident. Arpt Name: SKY HARBOR INTL () PHOENIX, AZ

XDistance: 400

Phase: LND

Category: UNDER

YDistance: R 228

REMARKS: Visual meteorological conditions at dusk. No VASI. Aircraft encountered wake turbulence which rocked wings causing interruption of fuel supply. Visual Acft Mfr: AERO COMDR/680-FL FAR Part: 135 YDistance: UNK Operator Name/DBA: COMBS AIRWAYS Rwy Surface Character: XDistance: 800 Owner Name: vertical guidance may have helped prevent these accidents. Rwy Status: Phase: LND Lgth: 10300 Surface Type: MACADAN Category: UNDER 02/52/50

Acft Mfr: PIPER/PA-3 FAR Part: 135 Operator Name/DBA: AIR PENNSYLVA Rwy Surface Character: Owner Name: Arpt Name: PHILADELPHIA INT () Rwy Status: DRY Lgth: 9500 PHILADELPHIA, PA Surface Type: MACADAM 07/25/80

REMARKS: Visual meteorological conditions. No VASI. Aircraft encountered wake turbulence from 8-727 that preceded it. Visual vertical guidance may have helped YDistance: L 480 Phase: LWD prevent this accident

XDistance: 300

Category: UNDER

Acft Mfr: SWEARINGEN/SA226 FAR Part: 135 Operator Name/DBA: RIO AIRWAYS, Owner Name: Arpt Name: KILLEEN MUNI () 4445 Lgth: KILLEEN, TX Rwy 10: 08/54/80

REMARKS: Visual meteorological conditions during daylight hours. No VASI. Copilot misjudged distance, speed, and altitude. Visual vertical guidance may have YD istance: XD istance: Phase: LND helped prevent this accident. Category: UNDER

Rwy Surface Character:

Rwy Status: DRY

Surface Type: MACADAM

Acft Mfr: BOEING/727 FAR Part: 121	YDistance: 0
Owner Name:	Rwy Surface Character:
Operator Name/DBA: CONTINENTAL AIRLINES	XDistance: 13
Arpt Name: YAP ()	Rwy Status: WET
Wid:	Phase: LND
11/21/80 YAP, WEST CARO 1S, TO Rwy 1D: Lgth: 4820	Surface Type: TWO OR MORE Category: UNDER REMARKS:

Acft Mfr: NIHON/YS-11A FAR Part: 121 YDistance: Operator Name/DBA: REEVE ALEUTIAN AIRWAYS Rwy Surface Character: Owner Name: Arpt Name: SAND POINT () Rwy Status: DRY Phase: LND Ë Lgth: 3800 SAND POINT, AK Surface Type: GRAVEL Category: UNDER REMARKS: Rwy 10: 04/18/81

REMARKS: Instrument meteorological conditions at night. Encountered windshear on ILS approach. Soubtful that additional vertical guidance would have prevented FAR Part: 135 SCHEDULED Acft Mfr: BEECH/99 YD istance: Rwy Surface Character: ROUGH TEXTURE Operator Name/DBA: PILGRIM AIRLINES OWNER NAME: PILGRIM AIRLINES XDistance: 850 Arpt Name: GROTON-NEW LONDON (GON) Rwy Status: WET Phase: LND Vid: 150 Lgth: 5000 Surface Type: ASPHALT GROTON, CT Category: UNDER Rwy 10: 5 02/01/82

this accident.

Owner Name: GIFFORD AVIATION

Arpt Name: HOOPER BAY (HPB)

Rwy actus:

. ipin

Lgth: 3600

Surface Type:

Rwy 10: 13

HOOPER BAY, AK

05/16/82

Rwy Surface Character:

Operator Name/DBA:

Acft Mfr: DEHAVILLAND/DHC-6-200

FAR Part: 135 SCHEDULED

REMARKS: Visual meteorological conditions during daylight hours. No VASI. Aircraft's center of gravity was substantially aft of its authorized limit. Additional YDistance: XDistance: 1300 vertical guidance would not have prevented this accident. Phase: LND Category: UNDER

Acft Mfr: FAIRCHILD/C-82 FAR Part: 121 NON-SCHEDULED Owner Name: WORTHERN AIR CARGO, INC. Rwy Surface Character: GROUND Operator Name/DBA: Arpt Name: NELSON LAGOON (273) Rwy Status: DRY Wid: 100 Lgth: 3100 NELSON LAGOON, AK Surface Type: DIRT Rwy 10: 26 1/04/82

XDistance:

Phase: LND

Category: UNDER

REMARKS:

YD istance:

Acft Hfr: PIPER/PA-3113 FAR Part: 135 SCHEDULED Operator Name/DBA: PEE DEE AIR EXPRESS, INC Owner Name: HRS TEXTILES, INC. Arpt Name: MARTSFIELD AIRPORT (ATL) Wid: 150 Lgth: 10000 Surface Type: CONCRETE ATLANTA, GA Ruy ID: 8 09/24/84

REMARKS: Visual meteorological conditions. Aircraft on ILS approach. No VASI. Aircraft ran out of fuel. Additional vertical guidance would not have prevented this YDistance: L 379 XDistance: 1500 Phase: LMO accident. Category: UNDER

Rwy Surface Character:

Rwy Status: DRY

FAR Part: 135 SCHEDULED Acft Mfr: CESSNA/4028 Owner Name: MIDWEST AVIATION CORP Rwy Surface Character: Operator Name/DBA: Lit Arpt Name: QUAD CITY (MLI) Rwy Status: DRY Surface Type: ASPHALT MOLINE, 11 Rwy 10: 27 08/07/85

REMARKS: Visual meteorological conditions. VASI available. Aircraft ran out of fuel. Additional vertical guidance would not have prevented this accident. YD istance: XDistance: 1500 Phase: LND Category: UNDEK

Owner Name: MARKAIR, INC. Operator Name/DBA: Arpt Name: UNALASKA (DUT) Lgth: 3900 09/25/85 UNALASKA, AK Rwy 10: 12

Rwy Status: WET Surface Type: GRAVEL

Category: UNDER

12/15/85

YDistance: Rwy Surface Character: POROUS ROUGH TEXTURE XD istance:

FAR Part: 121 SCHEDULED

Acft Mfr: BOEING/737-2X6C

0 Phase: LND

FAR Part: 135 SCHEDULED Acft Mfr: CESSNA/C-207 Rwy Surface Character: ROUGH TEXTURE Operator Name/DBA: RYAN AIR SERVICE Owner Name: RYAN AIR SERVICE XDistance: 256 RWY Status: SNOW-DRY SNOW-COMPACTED Arpt Name: NAPASKIAK (PKA) Vid: 45 Lgth: 2400 NAPASKIAK, AK Surface Type: SNOW Rwy 10: 19

REMARKS: Instrument meteorological conditions. Aircraft on VFR flight plan. No runway lights or VASI. Ice on windshield. Doubtful that additional vertical

YDistance: L 45

guidance would have prevented this accident.

Phase: LND

Category: UNDER

Owner Name: AMERICAN AIRLINES, INC. Operator Name/DBA: Arpt Name: RIO GRANDE VALLEY (HRL) Wid: 150 Rwy ID: 17 R Lgth: 8300 Surface Type: CONCRETE HARLINGEN, TX

Rwy Surface Character: FULLY GROOVED Rwy Status: DRY

YDistance: XDistance: 440 Phase: LND Category: UNDER

REMARKS:

Acft Mfr: BEECHCRAFT/99 FAR Part: 135 SCHEDULED Owner Name: CATSKILL AIRWAYS, INC. Operator Name/DBA: CATSKILL AIRWAYS, INC. Rwy Surface Character: SMOOTH Arpt Name: ONEONTA MUNICIPAL (N66) Rwy Status: DRY E E Lgth: 3400 Surface Type: ASPHALT ONEONTA, NY Rwy 10: 24 02/11/87

REMARKS: Visual meteorological conditions. VASI available but not used. Pilot misjudged altitude, distance, and airspeed. Additional vertical guidance would not YD istance: XD istance: Phase: LND Category: UNDER

have prevented this accident.

Acft Mfr: BOEING/727-223 FAR Part: 121 SCHEDULED

Acft Mfr: CESSNA/401A FAR Part: 135 YDistance: R 325 REMARKS: X AND Y DISTANCES ARE TO THE AIRCRAFT'S STOPPING POINT. INSTRUMENT METEOROLOGICAL COMDITIONS. IMPROPER PREFLIGHT. Rwy Status: DRY Operator Name/DBA: INTERNATL AVI XDistance: 837 Owner Name: Arpt Name: GREATER ROCKFORD () Rwy Surface Character: Phase: LND 8198 Lgth: Surface Type: MACADAM ROCKFORD, 11. Category: L Off

Acft Mfr: CONVAIR/240 FAR Part: 121 SCHEDULED Owner Name: PROVIDENCE AIRLINES CORPORATION

YDistance: UNK Rwy Status: WET Operator Name/DBA: XDistance: UNK REMARKS: INSTRUMENT METEOROLOGICAL COMDITIONS. IMPROPER RAISING OF FLAPS. Rwy Surface Character: SMOOTH TEXTURE Phase: LND Wid: 150 Lgth: Surface Type: ASPHALT Category: L OFF Rwy 10: 27

Arpt Name: DETROIT METROPOLITAN (DTW)

DETROIT, MI

05/29/82

Acft Hfr: BOEING/737-291 FAR Part: 121 SCHEDULED Rwy Status: WET Owner Name: FRONTIER AIRLINES

REMARKS: X DISTANCE IS TO TOUCHDOMN. Y DISTANCE IS GREATEST DISTANCE THAT AIRCRAFT WAS FROM CENTERLIME. AIRCRAFT TOUCHED DOWN PARTIALLY OFF RUNWAY, LEFT RUNWAY ENTIRELY, AND THEN RETURNED TO RUMMAY AT 3431' FROM THRESHOLD. INSTRUMENT METEOROLOGICAL CONDITIONS. IMPROPER INFLIGHT PLANNING AND PROCEDURES NOT YDistance: R 100 XDistance: 2230 Phase: LMD FOLLOWED. Category: L Off

Operator Name/DBA:

Rwy Surface Character: FULLY GROOVED

Arpt Name: LEE BIRD FIELD (LBF)

Lgth:

Ruy 10: 30

Surface Type: CONCRETE

NORTH PLATTE,

Acft Mfr: MCDONNELL-DOUGLAS/DC-9-50 FAR Part: 121 SCHEDULED Owner Name: EASTERN AIRLINES Operator Name/DBA: Arpt Name: GREENVILLE-SPARTANBURG (GSP) Vid: 150 Lgth: 7600 GREER, SC **85** 0: 02/07/83

REMARKS: AIRCRAFT INITIALLY TOUCHED DOWN PARTIALLY ON RUNWAY 1300' FROM THRESHOLD BUT COMTINIED ROLLOUT UNTIL IT WAS ENTIRELY OFF RIMMAY. AIRCRAFT BECAME AIRBORNE AT 1800'FROM THRESHOLD AND CONTINUED TO CHARLOTTE, NC. FURTHEST DISTANCE FROM R/W CENTERLINE WAS CALCULATED TO BE 110'. INSTRUMENT METEOROLOGICAL YDistance: R 110 Rwy Status: DRY XDistance: 1830 Rwy Surface Character: Phase: LND Surface Type: CONCRETE Category: L OFF

Acft Mfr: DEHAVILLAND/DHC-6-300 FAR Part: 135 SCHEDULED Operator Name/DBA: SOUTH PACIFIC ISLAND Owner Name: SOUTH PACIFIC ISLAND Arpt Name: TAU (HI3) CONDITIONS. MISSED APPROACH DELAYED. Vid: 100 Lgth: 2170 TAU, MANUA ISL, AS 07/21/84

YDistance: L 85 REMARKS: X AND Y DISTANCES ARE TO AIRCRAFT'S STOPPING POINT. VISUAL METEOROLOGICAL CONDITIONS. MECHANICAL FAILURE. Rwy Status: DRY XDistance: 500 Rwy Surface Character: Phase: LND Surface Type: DIRT Category: L OFF

Acft Mfr: MCDONNELL-DOUGLAS/DC-9-30 FAR Part: 121 SCHEDULED Rwy Status: DRY Operator Name/DBA: Owner Name: US AIR Rwy Surface Character: ROUGH TEXTURE Arpt Name: ERIE INT'L (ERI) 6500 wid: 150 Lgth: Surface Type: ASPHALT ERIE, PA Rwy 10: 24 10/14/64

REMARKS: X AND Y DISTANCES ARE TO THE AIRCRAFT'S STOPPING POINT. INSTRUMENT METEOROLOGICAL CONDITIONS. IFR PROCEDURE NOT FOLLOWED AND MISSED APPROACH NOT YDistance: R 81 XDistance: 5200 Phase: LND PERFORMED. Category: 1 OFF

REMARKS: X AND Y DISTANCES ARE TO THE TOUCHDOWN POINT. INSTRUMENT METEOROLOGICAL CONDITIONS. AIRCRAFT ATTEMPTING GO AROUND TOUCHED DOWN THEN BECAME AIRBORNE Acft Mfr: MCDONNELL DOUGLAS/DC-9 FAR Part: 121 SCHEDULED YDistance: L 91 Operator Name/DBA: DZARK AIR LINES, INC. Rwy Status: SNOW-DRY AGAIM AND CONTINUED TO STL. DELAYED DIRECTIONAL CONTROL AND IMPROPER USE OF PROCEDURE. XDistance: 900 Owner Name: Rwy Surface Character: Arpt Name: WILLARD (CMI) Phase: LND Wid: 150 Lgth: \$100 Surface Type: CONCRETE CHAMPAIGN, IL Category: L OFF Rwy 10: 31 02/10/85

Acft Mfr: BEECH/E18S FAR Part: 135 SCHEDULED OWNER NAME: INTERNATIONAL AIRCRAFT CORP. Operator Name/DBA: AIRSOUTH, INC. Arpt Name: PALM BEACH INTL (PBI) Rwy Surface Character: Wid: 150 Lgth: 6930 WEST PALM BCH, FL Surface Type: ASPHALT Rey 10: 13 05/06/85

Rwy Surface Character: Rwy Status: DRY Phase: LND XDistance: 5900

Category: L OFF

YDistance: R 600

Acft Mfr: PIPER/PA-60-600 FAR Part: 135 SCHEDULED YDistance: UNK REMARKS: X AND Y DISTANCES ARE TO AIRCRAFT'S STOPPING POINT. VISUAL METEOROLOGICAL CONDITIONS. WATER IN FUEL. Owner Name: MASTERS & SUMPTER Operator Name/DBA: AIR CONTINENTAL, INC. Rwy Status: DRY XDistance: UNK Arpt Name: EDWIN A. LINK FIELD (8GM) REMARKS: VISUAL METEOROLOGICAL COMDITIONS. ENGINE ASSEMBLY FAILURE. Rwy Surface Character: Phase: LND Surface Type: GRASS/TURF BINGHAMTON, NY Category: L Off 98/60/60 Rwy 10:

Acft Mfr: CASA/C-212-CC FAR Part: 135 SCHEDULED YDistance: L 674 Operator Name/DBA: FISHER BROTHERS AVIATION INC. Rwy Status: Owner Name: XDistance: 1010 Arpt Name: DETROIT METROPOLITAN (DTW) Rwy Surface Character: Phase: LMD Wid: 200 704/87 DETROIT, MI Ar Rwy ID: 21 R Lgth: 10501 Category: L OFF Surface Type: 03/04/87

REMARKS: X AND Y DISTANCE ARE TO AIRCRAFT'S TOUCHDOWN POINT. VISUAL METEOROLOGICAL CONDITIONS. INABILITY TO RECOVER FROM ASYMETRIC POWERCONDITION AT LOWSPEED FOLLOWING INTENTIONAL USE OF BETA MODEOF PROPELLER OPERATION.

FAR Part: 135 SCHEDULED Acft Mfr: CESSNA/207A Operator Name/DBA: RYAN AIR SERVICE, INC. Rwy Status: SNOW-DRY Owner Name: RYAN AIR SERVICE INC. Arpt Name: ATMAUTLAUK (08A) Rwy Surface Character: Ë Lgth: 2000 ATMAUTLUAK, AK Surface Type: SNOW Rwy 10: 33 12/06/87

REMARKS: PILOT LANDED ALONG THE SIDE OF RUMMAY TO AVOID SNOW REMOVAL EQUIPMENT ON THE RUNWAY. XDistance: UNK Phase: LND Category: L OFF

YDistance: UNK

Acft Wfr: DEHAVND CA/DHC-6	Acft Mfr: BEECH/899A	Acft Mfr: CESSNA/402	Acft Mfr: CESSNA/6018	Acft Mfr: SWEARINGEW/SA226	Acft Mfr: BEECH/E18S	Acft Wfr: CONVAIR/580	Acft Wfr: CESSWA/402B	Acft Mfr: BEECH/3NM	Acft Mfr: BEECH/D18S
FAR Part: 135	FAR Part: 135	FAR Part: 135	FAR Part: 135	FAR Part: 135	FAR Part: 135	FAR Part: 121	FAR Part: 135	FAR Part: 135	FAR Part: 135
YDistance: D L 120	YDistance: UNK	YDistence: D L 85	YDistance: D L 60	YDistance: D R 60	YDistance: D L 170	YDistance: D R 165	YDistence: L UNK	YDistance: R UNK	YDistence: L UNK
Owner Name: Operator Name/DBA: ROCKY MT.AUYS Rwy Surface Character: XDistance: A3500	Owner Name: Operator Name/DBA: AERO MECH INC Rwy Surface Character: XDistance: 81800	Owner Name: Operator Name/DBA: DICKNAN AVIAT Rwy Surface Character: XDistance: A1450 B1790	Owner Name: Operator Name/DBA: BUSH AIR,INC Rwy Surface Character: XDistance: 81200	Owner Name: Operator Name/DBA: AIR WISCONSIN Rwy Surface Character: XDistance: B2300	Owner Name: Operator Name/DBA: FLIGHT EXPRES Rwy Surface Character: XDistance: A2175 B2509	Owner Name: Operator Name/DBA: Rwy Surface Character: XDistance: 84105	Owner Name: Operator Name/DBA: BROWER AIRNAY Rwy Surface Character: XDistance: UNK	Owner Name: Operator Name/DBA: SPRINGFIELD A Rwy Surface Character: XDistance: A5500 86000	Owner Name: Operator Name/DBA: BLACKHAUK AIR Rwy Surface Character: XDistance: A 860 B1266
Arpt Name: LAKE COUNTY () Wid: 75 Rwy Status: DRY Phase: LND	Arpt Name: BENEDUM () Wid: 150 Rwy Status: SLUSH JOVERED Phase: T/O	Arpt Name: ROLLA NATIONAL () Wid: 150 Rwy Status: SNOW Phase: LND	Arpt Name: MOOPER BAY () Wid: 100 Rwy Status: SWOM-CRUSTED Phase: LWO	Arpt Name: O'HARE INTL () Wid: 150 Rwy Status: ICE COVERED Phase: T/O	Arpt Wame: MARRISBURG INTL () Wid: 200 Rwy Status: Phase: LND	Arpt Name: MOPKINS INTL () Wid: 150 Rwy Status: WET Phase: LND	Arpt Name: KEOKUK MUNI () Wid: 100 Rwy Status: WET Phase: 1/0	Arpt Name: SYRACUSE-HANCOCK () Wid: 150 Rwy Status: Phase: T/O	Arpt Name: O'HARE INT'L () Wid: 150 Rwy Status: DRY Phase: LMD
01/05/78 LEADVILLE, CO	01/17/78 CLARKSBURG, WY	02/13/78 VICHY, NO	02/16/78 HOOPER BAY, AK	02/16/78 CHICAGO, IL	02/17/78 MIDDLETOWN, PA	04/20/78 CLEVELAND, OH	05/11/78 KEOKUK, IA	05/23/78 SYRACUSE, NY	08/08/78 CHICAGO, IL
Rwy ID: 34 Lgth: 4800	Rwy ID: 3 Lgth: 5200	Rwy 1D: 22 Lgth: 5500	Rwy ID: 31 Lgth: 4000	Rwy 10: 36 Lgth: 5341	Rwy ID: 31 Lgth: 9501	Rwy ID: 28 R Lgth: 6015	Rwy ID: 13 Lgth: 3800	Rwy 10: 28 Lgth: 9005	Rwy ID: 14 L Lgth: 10003
Surface Type: MACADAM	Surface Type: MACADAM	Surface Type: MACADAN	Surface Type: TWO OR HORE	Surface Type: CONCRETE	Surface Type: MACADAM	Surface Type: COMCRETE	Surface Type: COMCRETE	Surface Type:	Surface Type: MACADAM
Category: VEER	Category: VEER	Category: VEER	Category: VEER	Category: VEER	Category: VEER	Category: VEER	Category: VEER	Category: VEER	Category: VEER

Acft Mfr: LOCKHEED/L-382G FAR Part: 121 YDistance: UNK	Acft Mfr: PIPER/PA-31 FAR Part: 135 YDistance: R UNK	Acft Mfr: SWEARINGEN/SA226 FAR Part: 135 YDistance: L UNK	Acft Mfr: GRUMMAN/G-21A .INES FAR Part: 121 YDistance: D L 60	Acft Wfr: BOEING/727 FAR Part: 121 YDistance: E R 85	Acft Wfr: DQUGLAS/DC-8-6 FAR Part: 121 YDistence: E L 95	Acft Wfr: DEHAVILLAN/114-2X FAR Part: 135 YDistence: UNK	Acft Mfr: HANDLY-PAG/HP-137 FAR Part: 135 YDistence: D L 135	Acft Mfr: SWEARINGEN/SA-226 FAR Part: 135 YDistance: D L 60	Acft Mfr: AEROSTAR/601 FAR Part: 135 YDistance: D L 132
Owner Name: Operator Name/DBA: TRANS INT AIR RMy Surface Character: XDistance: UNK	Owner Name: Operator Name/DBA: EUREKA AERO I Rwy Surface Character: XDistance: UMK	Owner Name: Operator Name/DBA: TEJAS AIRLINE RMy Surface Character: XDistance: A4100 B5000	UMMER Name: Operator Name/DBA: KODIAK WESTERN ALASKA AIRLINES FAR Part: 121 RMy Surface Character: XDistance: 81980 YDistance: 0	Owner Name: Operator Name/DBA: PIEDMONT AVIATION Rwy Surface Character: XDistance: A1500 C3060	Owner Name: Operator Name/DBA: FLYING TIGER Rwy Surface Character: XDistance: UNK	Owner Name: Operator Name/DBA: FISCHER BROS Rwy Surface Character: XDistance: UMK	Owner Name: Operator Name/DBA: BIG SKY AIRLI Rwy Surface Character: XDistance: 84200	Owner Name: Operator Name/DBA: MIDSTATE AIRL Rwy Surface Character: XDistance: A 230 B 700	Owner Name: Operator Name/DBA: L.J.SIMMONS Rwy Surface Character: XD istance: 82300
Arpt Name: DOVER AFB () Wid: Rwy Status: DRY Phase: LND	Arpt Name: KNEELAND () Wid: 75 Rwy Status: DRY Phase: LND	Arpt Name: ROBERT MUELLER () Vid: 150 Rwy Status: DRY Phase: LMD Arpt Name: CMD MARROR ()	Arpt wame: OLD MAKBOK () Wid: 90 Rwy Status: DRY Phase: T/O	Arpt Name: SHITH-REYNOLDS () Wid: 150 Rwy Status: WET Phase: LND	Arpt Name: INTERCONTINENTAL () Wid: 150 Rwy Status: DRY Phase: LMD	Arpt Name: CLEVELAND HOPKIN () Wid: 150 Rwy Status: DRY Phase: LND	Arpt Name: MISSOULA COUNTY () Wid: 150 Rwy Status: SNOW-COVERED Phase: 1/0	Arpt Name: ALEXANDRIA FIELD () Wid: 75 Rwy Status: SNOW-COVERED Phase: LND	Arpt Name: KENT COUNTY INTL () Wid: 150 Rwy Status: ICE COVERED Phase: LND
08/10/78 DOVER, DE Rwy :D: Lgth: 9600 Surface Type: MACADAM Category: VEER	`	US/15/78 AUSTIN, 1X Rwy ID: 12 R Lgth: 7269 Surface Type: MACADAM Category: VEER 09/02/78 OLD MARROR: AK	Surface Type StavEL Category: VEER	11/17/78 WINSTOW-SALEM, NC Rwy ID: 33 Lgth: 6654 Surface Type: MACADAM Category: VEER	11/29/78 HOUSTON, TX Rwy ID: 8 Lgth: 9400 Surface Type: CONCRETE Category: VEER	12/18/78 CLEVELAND, OH Rwy ID: 36 L Lgth: 6411 Surface Type: MACADAM Category: VEER	01, 79 MISSOULA, MT '>> 1D: 29 Lgth: 9500 Surface Type: MACADAM Category: VEER	01/15/79 WISCONSIN RPDS, WI Rwy 1D: 20 Lgth: 4800 Surface Type: WACADAM Category: VEER	01/19/79 GRAND RAPIDS, MI Rwy ID: 26 L Lgth: 7600 Surface Type: MACADAM Category: VEER

Acft Mfr: BEECH/B-18	Acft Mfr: BEECH/E18-S	Acft Mfr: PIPER/PA-31	Acft Wfr: CESSNA/500	Acft Mfr: BOEING/747	Acft Mfr: DQUGLAS/DC-9	Acft Mfr: BEECH/65-A80	Acft Mfr: CESSWA/180	Acft Mfr: DEHAVILLAN/DH 104	Acft Mfr: BRITTNORMA/BN-2A
FAR Part: 135	FAR Pert: 135	FAR Part: 135	FAR Part: 135	FAR Part: 121	FAR Part: 121	FAR Part: 135	FAR Part: 135	FAR Pert: 135	Far Part: 121
YDistance: L UNK	YDistance: UNK	YDistance: UNK	YDistance: UMK	YDistance: D R 175	YDistance: D L 125	YDistance: UMK	YDistance: UMK	YDistance: D R 275	YDistance: L UNK
Owner Name: Operator Name/DBA: SMB STAGELINE Rwy Surface Character; XDistance: UNK	Owner Name: Operator Name/DBA: GREAT WESTERN Rwy Surface Character: XDistance: UNK	Owner Name: Operator Name/DBA: WINNIPESAUKEE Rwy Surface Character: XDistance: UNK	Owner Name: Operator Name/DBA: MIDWEST AIR C Rwy Surface Character: XDistance: A1300 B3375	Owner Name: Operator Name/DBA: Rwy Surface Character: XDistance: A4100 B5425	Owner Name: Operator Name/DBA: EASTERN AIRLINES Rwy Surface Character: XDistance: A4000 B6000	Owner Name: Operator Name/DBA: YOSEMITE AIR Rwy Surface Character: XDistance: UMK	Owner Name: Operator Name/DBA: WESTERN YUKON Rwy Surface Character: XDistance: UMK	Owner Name: Operator Name/DBA: MIDWEST AIR C Rwy Surface Character: XDistance: A2800	Owner Name; Operator Name/DBA: MUNTZ NORTHERN AIRLINES Rwy Surface Character; XDistance: UNK
Arpt Name: CHICAGO-O'HARE () Wid: 150 Rwy Status: SNOW-COVERED Phase: LND	Arpt Name: CAPITAL () Wid: 150 Rwy Status: SNOW-COVERED Phase: T/0	Arpt Name: LACONIA () Wid: 150 Rwy Status: SNOW Phase: LND	Arpt Name: LOGAN INTL () Wid: 150 Rwy Status: Phase: 7/0	Arpt Name: O'HARE INTL () Wid: 150 Rwy Status: Phase: LND	Arpt Name: LAMBERT-ST LOUIS () Wid: 200 Rwy Status: WET Phase: LND	Arpt Name: SAN FRANCISCO IN () Wid: 200 Rwy Status: Phase: LND	Arpt Name: ST MARYS () Wid: 150 Rwy Status: WET Phase: T/O	Arpt Name: LAMBERT () Wid: 150 Rwy Status: DRY Phase: LND	Arpt Name: TIN CITY () Wid: 135 Rwy Status: UNK/NR Phase: LND
01/24/79 CHICAGO, 1L	01/27/79 SPRINGFIELD, IL	01/31/79 LACONIA, NH	02/07/79 BOSTOM, MA	02/15/79 CHICAGO, 1L	03/22/79 ST LOUIS, WO	04/17/79 SAN FRANCISCO, CA	06/09/79 SAINT MARYS, AK	06/11/79 ST LQUIS, MO	07/25/79 TIN CITY, AK
Rwy 1D: 27 L Lgth: 10140	Rwy 10: 4 Lgth: 8000	Rwy 10: 8 Lgth: 5505	Rwy 10: 9 Lgth: 7000	Rwy ID: 9 R Lgth: 10140	Rwy 10: 12 R Lgth: 10018	Rwy 10: 28 L Lgth: 10600	Rwy ID: 16 Lgth: 6000	Rwy 1D: 24 Lgth: 7602	Rwy 10: 34 Lyth: 4700
Surface Type: COMCRETE	Surface Type: CONCRETE	Surface Type:	Surface Type: MACADAM	Surface Type:	Surface Type: COMCRETE	Surface Type:	Surface Type: MACADAM	Surface Type: CONCRETE	Surface Type: GRAVEL
Category: VEER	Category: VEER	Category: VEER	Category: VEER	Category: VEER	Category: VEER	Category: VEER	Category: VEER	Category: VEER	Category: VEER

Acft Wfr: BEECH/E18S	Acft Mfr: BRITTNORMA/BuZA-9	Acft Mfr: DOUGLAS/DC-8	Acft Mfr: BEECH/99	Acft Mfr: CONVAIR/580	Acft Mfr: DEHAVILLAN/DHC-6	Acft Mfr: CONVAIR/440	Acft Mfr: BEECH/99	Acft Mfr: CESSNA/207	Acft Mfr: SUD AVN/SE-210
FAR Part: 135	FAR Part: 135	FAR Part: 121	FAR Part: 135	FAR Part: 121	FAR Part: 135	FAR Pert: 121	FAR Part: 135	FAR Part: 135	FAR Part: 121
YDistance: L UNK	YDistance: UNK	YDistance: D R 174	YDistance: UNK	YDistance: D L 125	YDistance: UNK	YDistance: D L 225	YDistance: UNK	YDistance: D R 135	YDistance: D L 250
Owner Name: Operator Name/DBA: SKYWAY AVIATI Rwy Surface Character: XDistance: UNK	Owner Name; Operator Name/DBA: CRESTED BUTTE Rwy Surface Character: XDistance: A1300	Owner Name: Operator Name/DBA: BRANIFF INT'L Rwy Surface Character: XDistance: 86700	Owner Name: Operator Name/DBA: MESABA AIRWAY Rwy Surface Character: XDistance: UNK	Owner Name: Operator Name/DBA: REPUBLIC AIRLINES Rwy Surface Character: XDistance: A2000 B3000	Owner Name: Operator Name/DBA: SOUTH PACIFIC Rwy Surface Character: XDistance: UNK	Owner Name: Operator Name/DBA: MACKEY INTERNATIONAL Rwy Surface Character: XDistance: A4000	Owner Name: Operator Name/DBA: MISSISSIPPI V Rwy Surface Character: XDistance: UNK	Owher Name: Operator Name/DBA: KODIAK WESTER Rwy Surface Character: KDistance: A 870 81680	Owner Name: Operator Name/DBA: AIRBORNE EXPRESS Rwy Surface Character: XDistance: A2100 84526
Arpt Name: FORNEY AAF () Wid: 150 Rwy Status: WET Phase: LMO	Arpt Name: CRESTED BUTTE () Wid: 90 Rwy Status: DRY Phase: T/0	Arpt Name: TOCUMEN () Wid: 148 Rwy Status: WET Phase: LND	Arpt Name: MINNEAPOLIS-ST P () Wid: 150 Rwy Status: Phase: LND	Arpt Name: THIEF RIV FLS RE () Wid: 150 Rwy Status: SLUSH COVERED Phase: LND	Arpt Name: TAU () Wid: 100 Rwy Status: DRY Phase: LND	Arpt Name: () Wid: Rwy Status: Phase: LWD	Arpt Name: LA CROSSE MUNI () Wid: 150 Rwy Status: SLUSH COVERED Phase: LND	Arpt Name: SOUTH NAKNEK NR () Wid: 85 Rwy Status: WET Phase: LND	Arpt Name: MARTSFIELD INTL () Wid: 150 Rwy Status: DRY Phase: LND
07/25/79 FT WDOD, MO	10/08/79 CRESTED BUTTE, CO	10/14/79 PANAMA CTY, PH	10/24/79 MINNEAPOLIS, MM	10/31/79 THIEF RIV FLS, MN	11/05/79 TAU, AS	11/24/79 FREEPORT, BA	01/17/80 LA CROSSE, WI	03/06/80 SOUTH MAKNEK, AK	06/19/80 ATLANTA, GA
Rwy ID: 14 Lgth: 5008	Rwy ID: 29 Lgth: 4500	Rwy 1D: 3 R Lgth: 10000	Rwy ID: Lgth:	Rwy ID: 31 Lgth: 6500	Rwy ID: Lgth: 1620	Rwy ID: Lgth: 11000	Rwy ID: 31 Lgth: 5298	Rwy ID: 30 Lgth: 2600	Rwy ID: 26 Lgth: 10000
Surface Type: MACADAM	Surface Type: GRAVEL	Surface Type: CONCRETE	Surface Type:	Surface Type: MACADAM	Surface Type: CORAL	Surface Type:	Surface Type: MACADAM	Surface Type: GRAVEL	Surface Type: CONCRETE
Category: VEER	Category: VEER	Category: VEER	Category: VEER	Category: VEER	Category: VEER	Category: VEER	Category: VEER	Category: VEER	Category: VEER

Acft Mfr: BOEING/727 NS FAR Part: 121 YDistance: D L 475	Acft Mfr: BEECH/G18S FAR Part: 135 YDistance: D L 150 Acft Mfr: DEHAVILLAN/DHC-6		Acft Wfr: BOEING/737 FAR Part: 121 YDistance: D R 115 Acft Wfr: BEECH/E18S FAR Part: 135 YDistance: L UNK	Acft Wfr: CESSNA/R182 FAR Part: 135 YDistance: R UNK Acft Wfr: BEECH/B99 FAR Part: 135 YDistance: L UNK	Acft Mfr: PIPER/PA-23 FAR Part: 135 YDistance: D R 175 Acft Mfr: BEECH/65-80 FAR Part: 135
Owner Name: Operator Name/DBA: BRANIFF AIRNAYS Rwy Surface Character: XDistance: A4700 B6000	Owner Name: Operator Name/DBA: SUN INTERNATI Rwy Surface Character: XDistance: A3500 Owner Name:	Operator Name/DBA: EVERGREEN HEL Rwy Surface Character: XDistance: 8 945 Owner Name: Operator Name/DBA: PIONEER AIRWA Rwy Surface Character: XDistance: UNK	Owner Name: Operator Name/DBA: AIR CALIFORNIA Rwy Surface Character: XDistance: A 900 B2070 Owner Name: Operator Name/DBA: COKER AIRFREI Rwy Surface Character: XDistance: UNK	Owner Name: Operator Name/DBA: MUTUAL AIR EX Rwy Surface Character: XDistance: UNK Owner Name: Operator Name/DBA: ROYALE AIRLIN Rwy Surface Character: XDistance: UNK	Owner Name: Operator Name/DBA: AIR TAXI SERV Rwy Surface Character: XDistance: A5500 B5700 Owner Name: Operator Name/DBA: OCEAN AIR INC Rwy Surface Character:
Arpt Name: NEWARK INTL () Wid: 150 Rwy Status: Phase: LND	Arpt Name: PUERTO RICO INTL () Wid: 200 Rwy Status: DRY Phase: LND Arpt Name: AMBLER ()	Wid: 80 Rwy Status: SNOM-COVERED Phase: T/O Arpt Name: HALL COUNTY () Wid: 150 Rwy Status: DRY Phase: LMD	Arpt Name: JOHN WAYNE () Wid: 150 Rwy Status: UNK/NR Phase: LND Arpt Name: LUBBOCK INTL () Wid: 150 Rwy Status: DRY Phase: LND	Arpt Name: DYESS AFB () uid: Rwy Status: OTHER Phase: LND Arpt Name: SHREVEPORT RGNL () uid: 200 Rwy Status: DRY Phase: T/O	Arpt Name: MIAMI INTL () Wid: 200 Rwy Status: DRY Phase: T/O Arpt Name: ALEXANDER HAMLTO () Wid: 150 Rwy Status: DRY
11/11/80 NEWARK, NJ Rwy ID: 4 R Lgth: 8200 Surface Type: Category: VEER	01/28/81 SAN JUAN, PR Rwy ID: 25 Lgth: 10002 Surface Type: MACADAM Category: VEER 02/03/81 AMBLER, AK		02/17/81 SANTA ANA, CA Rwy ID: 19 R Lgth: 5700 Surface Type: MACADAM Category: VEER 02/18/81 LU8BOCK, TX Rwy ID: 8 Lgth: 8001 Surface Type: CONCRETE Category: VEER	06/16/81 ABILENE, TX RWY ID: Lgth: Surface Type: CONCRETE Category: VEER 06/17/81 SHREVEPORT, LA RWY ID: 14 Lgth: 7300 Surface Type: MACADAM Category: VEER	06/22/81 MIAMI, FL Rwy ID: 9 L Lgth: 10500 Surface Type: MACADAM Category: VEER 06/26/81 ST.CR0IX, VI Rwy ID: 9 Lgth: 7612 Surface Type: COMCRETE

Acft Wfr: BEECH/A36	Acft Mfr: CURIIS-WRT/C-46	Acft Mfr: SWEARINGEN/SA-227	Acft Mfr: SUFARINGEN/SA226TC	Acft Mfr: BOEING/727-200	Acft Mfr: GULFSTREAM AMERICAN/G-159C .	Acft Mfr: BAC/1-11-204AF	Acft Mfr: GRUMMAN/G-159C	Acft Mfr: CESSNA/402	Acft Mfr: BOEING/727-223
FAR Part: 135	FAR Part: 121	FAR Part: 135 SCHEDULED	FAR Part: 135 SCHEDULED	FAR Part: 121 SCHEDULED	, IMAR Part: 121 SCHEDULED	FAR Part: 121 SCHEDULED	FAR Part: 121 SCHEDULED	FAR Part: 135 SCHEDULED	FAR Part: 121 SCHEDULED
YDistance: D L 70	YDistance: D L 275	YDistance: R UNK	YDistance: R UNK	YDistance: D L 75	TDistance: UNK	YDistance: D R 90	YDistance: UNK	YDistance: D L 50	YDistance: E L 100
Owner Name: Operator Name/DBA: MARTINAIRE, 1 Rwy Surface Character: XDistance: UNK	Owner Name: Operator Name/DBA: CARIBBEAN AIR Rwy Surface Character: XDistance: UNK	Owner Name: MIDSTATE AIRLINES Operator Name/DBA: Rwy Surface Character: XDistance: UNK	Owner Name: BRITT AIRWAYS, INC. Operator Name/DBA: Rwy Surface Character: XDistance: A1000	Owner Name: UNITED AIRLINES Operator Name/DBA: Rwy Surface Character: FULLY GROOVED XDistance: 84800	Owner Name: U.S. AVIATION, INC. Operator Name/DBA: U.S. AVIATION, INC./AIR U.S., IMER Part: 121 SCHEDULED Rwy Surface Character: SMOOTH TEXTURE XDistance: B2550	Owner Name: U.S. AIR Operator Name/DBA: Rwy Surface Character: SMOOTH TEXTURE XDistance: A3500 B3800	Owner Name: GulfSTREAM AMERICAN CORPORATION Operator Name/DBA: U.S. AVIATION, INC. Rwy Surface Character: XDistance: B3000	Owner Name: GREG HAWES Operator Name/DBA: Rwy Surface Character: SMOOTH TEXTURE XDistance: A 220 B1570	Owner Name: AMERICAN AIRLINES Operator Name/DBA: <pre></pre> <pre>Awy Surface Character: FULLY GROOVED XDistance: A2000 G3400</pre>
Arpt Name: DRAKE () Wid: 100 Rwy Status: DRY Phase: LND	Arpt Name: SAN JUAN INTL () Wid: 150 Rwy Status: WET Phase: LND	Arpt Name: O'HARE (ORD) Wid: 150 Rwy Status: DRY Phase: LND	Arpt Name: O'HARE INTERNATIONAL (ORD) Wid: 200 Rwy Status: DRY Phase: T/O	Arpt Name: YOUNGSTOWN MUNICIPAL (YNG) Wid: 150 Rwy Status: SNOM-WET Phase: LND	Arpt Name: GILLETTE-CAMPBELL COUNTY (GCC) Wid: 75 Rwy Status: DRY Phase: LND	Arpt Name: COX INTERNATIONAL (DAY) Wid: 150 Rwy Status: WET Phase: LND	Arpt Name: GILETTE-CAMPBELL COUNTY (GCC) Wid: 75 Rwy Status: WET Phase: LND	Arpt Name: METRO () Wid: 100 Rwy Status: DRY Phase: T/O	Arpt Name: ADAMS (LIT) Wid: !50 Rwy Status: WET Phase: LND
11/30/81 FAYETTEVILLE, AR	12/30/81 SAN JUAN, PR	02/24/82 CHICAGO, IL	03/30/82 CHICAGO, IL	04/09/82 YOUNGSTOWN, OH	05/18/82 GILLETTE, WY	05/21/82 DAYTON, OH	06/08/82 GILLETTE, WY	09/02/82 FAIRBANKS, AK	11/2_/82 LITTLE ROCK, AR
Rwy ID: 16 Lgth: 6006	Rwy 10: 28 Lgth: 8016	Rwy ID: 27 Lgth: 7400	Rwy ID: 32 Lgth: 11600	Rwy 1D: 32 Lgth: 7492	Rwy 10: 15 Lgth: 6507	Rwy 1D: 18 Lgth: 6999	Rwy 10: 33 Lgth: 6507	Rwy 1D: 6 Lgth: 4600	Rwy 1D: 22 Lgth: 7012
Surface Type: MACADAM	Surface Type: CONCRETE	Surface Type: ASPHALT	Surface Type: CONCRETE	Surface Type: ASPHALT	Surface Type: ASPHALT	Surface Type: ASPHALT	Surface Type: ASPHALT	Surface Type: ASPHALT	Surface Type: CONCRETE
Category: VEER	Category: VEER	Category: VEER	Category: VEER	Category: VEER	Category: VEER	Category: VEER	Category: VEER	Category: VEER	Category: VEER

Acft Mfr: SWEARINGEN/SA-227AC FAR Part: 135 SCHEDULED YDistance: D R 160 Acft Mfr: SWEARINGEN/SA-226TC FAR Part: 135 SCHEDULED YDistance: D L 100	Acft Mfr: CONVAIR/580-11-A FAR Part: 121 SCHEDULED YDistance: D R 80 Acft Mfr: CESSNA/207A FAR Part: 135 SCHEDULED YDistance: UNK	Acft Wfr: BEECH/C99 FAR Part: 135 SCHEDULED YDistance: UNK Acft Wfr: BOEING/727-225A FAR Part: 121 SCHEDULED YDistance: D R 175	Acft Mfr: CONVAIR/440 FAR Part: 121 SCHEDULED YDistance: D L 100 Acft Mfr: DOUGLAS/DC-9-31 FAR Part: 121 SCHEDULED YDistance: UNK	Acft Mfr: CANADAIR/CL44D4 FAR Part: 121 NON-SCHEDULED YDistance: D R 900 Acft Wfr: FOKKER/F27-100 FAR Part: 121 SCHEDULED YDistance: D R 179
Owner Name: PIONEER AIRLINES Operator Name/DBA: Rwy Surface Character: SMOOTH TEXTURE XDistance: A 400 B 850 Owner Name: GATX THIRD AIRCRAFT CORP. Operator Name/DBA: Rwy Surface Character: SMOOTH TEXTURE XDistance: B3500	Owner Name: Operator Name/DBA: REPUBLIC AIRLINES, INC. ORG@FBurface Character: XDistance: B3300 Owner Name: BETHEL VENTURES D/B/A Operator Name/DBA: Rwy Surface Character: XDistance: UNK	Owner Name: BEECH ACCEPTANCE CORP., INC. Operator Name/D&A: AIR VERMONT Rwy Surface Character: XDistance: A&000 Owner Name: CONNECTICUT NATIONAL BANK Operator Name/DBA: EASTERN AIRLINES Rwy Surface Character: XDistance: 810502	Owner Name: CCMBS AIRWAYS Operator Name/DBA: Rwy Surface Character: POROUS XDistance: 84700 Owner Name: OZARK AIR LINES, INC Operator Name/DBA: Rwy Surface Character: XDistance: 84125	Owner Name: AIRCRAFT MARKETING, INC. Operator Name/DBA: BLUE BELL, INC. Rwy Surface Character: XDistance: A4200 B5200 Owner Name: PILGRIM AIRLINES Operator Name/DBA: Rwy Surface Character: XDistance: A6600 B7200
Arpt Name: GILLETTE CAMPBELLL COUNT (GCC) Wid: 75 Rwy Status: Phase: T/O Arpt Name: KINGSLEY FIELD () Wid: 150 Rwy Status: SNOW-DRY Phase: T/O	Arpt Name: BRAINERD CROW WING CO () Unid: 150 Rwy Status: ICE COVERED SNOW-COMPACTED SLUSH COROGEBurface Character: Phase: LND Arpt Name: KWIGILLINGOK (AK8) Unid: 35 Rwy Status: SNOW-DRY Rwy Status: SNOW-DRY Phase: I/O XDistance: UNK	Arpt Name: BURLINGTON INTL (BTV) Wid: 150 Rwy Status: DRY Phase: LND Arpt Name: MIAMI INTL (MIA) Wid: 150 Rwy Status: DRY Phase: LND	Arpt Name: SWEETWATER COUNTY (RKS) Wid: 150 Rwy Status: SWOM-COMPACTED Phase: LND Arpt Name: JOE FOSS FIELD (KF3) Wid: 150 Rwy Status: SNOM-DRY Phase: LND	Arpt Name: LOGAN INT'L (BOS) Wid: 150 Rwy Status: SMOM-DRY Phase: LND Arpt Name: KENNEDY (KJF) Wid: 150 Rwy Status: Phase: LND
12/20/3c GILLETTE, WY Rwy 10: 15 Lgth: 6500 Surface Type: ASPHALT Category: VEER 12/22/82 KLAMATH FALLS, OR Rwy 10: 14 Lgth: 10301 Surface Type: CONCRETE Category: VEER	01/09/83 BRAINERD, MN Rwy 10: 23 Lgth: 6500 Surface Type: ASPHALT Category: VEER 02/09/83 KWIGILLINGOK, AK Rwy 10: 15 Lgth: 2300 Surface Type: GRAVEL Category: VEER	10/06/83 BURLINGTON, VT Rwy ID: 33 Lgth: 7870 Surface Type: ASPHALT Category: VEER 11/11/83 MIAMI, FL Rwy ID: 9 R Lgth: 13002 Surface Type: ASPHALT Category: VEER	12/19/83 ROCK SPRINGS, WY Rwy 1D: 27 Lgth: 10000 Surface Type: ASPHALT Category: VEER 12/20/83 SIOUX FALLS, SD ? Y 1D: 3 Lgth: 8999 Surface Type: CONCRETE Category: VEER	01/01/84 EAST BOSTON, MA Rwy ID: 4 L Lgth: 7860 Surface Type: ASPHALT Category: VEER 01/13/84 JAMAICA, NY Rwy ID: 4 L Lgth: 11351 Surface Type: ASPHALT Category: VEER

Acft Mfr: SWEARINGEN/SA227-AC FAR Part: 135 SCHEDULED YDistance: D L 85	Acft Mfr: MCDONNELL DOUGLAS/DC-8-61 FAR Part: 121 SCHEDULED YDistence: UNK	Acft Mfr: NIHON/YS-11 FAR Part: 121 SCHEDULED YDistance: D L %40	Acft Wfr: MCDONNELL DOUGLAS/DC-9-31 FAR Part: 121 SCHEDULED VED YDistance: D L 200	Acft Mfr: SWEARINGEN/SA227-AC FAR Part: 135 SCHEDULED YDistance: UNK	Acft Wfr: BOEING/727-23 FAR Part: 121 SCHEDULED YDistance: D L 105	Acft Mfr: DEHAVILLAND/DHC-6-300 FAR Part: 135 SCHEDULED YDistance: L UNK	Acft Mfr: FAIRCHILD-SWEARINGEN/SA 227 FAR Part: 121 SCHEDULED YDistance: E R 60	Acft Mfr: CONVAIR/440 FAR Part: 121 NON-SCHEDULED YDistance: D R 50	Acft Mfr: CESSNA/U206 FAR Part: 135 SCHEDULED YDistance: D L 60
Owner Name: COMMUTER AIRLINES OF CO. Operator Name/DBA: TRANS COLORADO AIRLINE Rwy Surface Character: XDistance: A1700B2300	Owner Name: UNITED AIRLINES, INC. Operator Name/DBA: Rwy Surface Character: XDistance: B 400	Owner Name: TRANSCENTRAL AIRLINE CORP. Operator Name/DBA: Rwy Surface Character: XDistance: A2800	Owner Name: US AIR, INC. Operator Name/DBA: Rwy Surface Character: ROUGH TEXTURE FULLY GROOVED XDistance: 86300	Owner Name: UNITED BANK OF DENVER NAT'L Operator Name/DBA: PIONEER AIRWAYS,INC.(PIOA) Rwy Surface Character: XDistance: UNK	Owner Name: AMERICAN AIRLINES, INC. Operator Name/DBA: Rwy Surface Character: FULLY GROOVED XDistance: 88100	Owner Name: METROFLIGHT INC. Operator Name/DBA: METROFLIGHT, INC. Rwy Surface Character: XDistance: UNK	Owner Name: HOUSTON ACFT LEASING Operator Name/DBA: CASCADE AIRWAYS, INC. Rwy Surface Character: SMOOTH XDistance: A2335 C3600	Owner Name: FLIGHT TRAILS Operator Name/DBA: FLIGHT TRAILS Rwy Surface Character: XDistance: A1000 B3000	Owner Name: BAKER AVIATION, INC Operator Name/DBA: BAKER AVIATION, INC. Rwy Surface Character: XDistance: A3660 B3900
Arpt Name: LA PLATA COUNTY (DRO)	Arpt Name: O'HARE IAP (ORD)	Arpt Name: TULSA INT'L (TUL)	Arpt Name: DETROIT METRO (DTW)	Arpt Name: HALL COUNTY REGINAL (GRI)	Arpt Name: STAPLETON INT'L (DEN)	Arpt Wame: HOUSTOM INTERNATIONAL (IAH)	Arpt Name: PULLMAN-MOSCOW (PUM)	Arpt Name: WALKER COUNTY (LO2)	Arpt Name: POINT HOPE (PHO)
Wid: 150	Wid: 150	Wid: 200	Wid: 200	Wid: 150	Wid: 150	Wid: 100	Wid: 100	Wid: 100	Wid: 100
Rwy Status: ICE COVERED SNOW-DRY	Rwy Status: WET	Rwy Status: DRY	Rwy Status: WET	Rwy Status: DRY	Rwy Status: DRY	Rwy Status: DRY	Rwy Status: SNOW-WET	Rwy Status: DRY	Rwy Stetus: SWOM-DRY
Phase: LND	Phase: T/O	Phase: LND	Phase: LND	Phase: T/O	Phase: LND	Phase: LND	Phase: LND	Phase: LND	Phase: T/O
01/14/84 DURANGO, CO	01/23/84 CHICAGO, IL	02/15/84 TULSA, OK	06/13/84 DETROIT, MI	06/29/84 GRAND ISLAND, NE	07/03/84 DENVER, CO	09/29/84 HOUSTON, TX	11/29/84 PULLMAN, WA	12/16/84 JASPER, AL	12/17/84 POINT HOPE, AK
Rwy 1D: 2 Lgth: 9200	Rwy ID: 9 L Lgth: 7416	Rwy ID: 17 L Lgth: 10000	Rwy ID: 21 R Lgth: 10501	Rwy 1D: 17 Lgtn: 7U01	Rwy 1D: 26 L Lgth: 10010	Rwy ID: 14 R Lgth: 6048	Rwy 10: 23 Lgth: 6731	Rwy ID: 27 Lgth: 4800	Rwy ID: 19 Lgth: 4000
Surface Type: ASPHALT	Surface Type: ASPHALT	Surface Type: ASPHALT	Surface Type: CONCRETE	Surface Type: ASPHALT	Surface Type: CONCRETE	Surface Type: CONCRETE	Surface Type: ASPHALT	Surface Type: MKCADAM	Surface Type: GRAVEL
Category: VEER	Category: VEER	Category: VEER	Category: VEER	Category: VEER	Category: VEER	Category: VEER	Category: VEER	Category: VEER	Category: VEER

Acft Mfr: LOCKHED/188C	Acft Mfr: FAIRCHILD/SA-227AC	Acft Mfr: CESSNA/402C	Acft Mfr: BOEING/737-300	Acft Wfr: FAIRCHILD/SA226TC	Acft Mfr: DEHAVILLAND/DHC-6	Acft Mfr: BEECH/BE-99C	Acft Mfr: SWEARINGEN/SA226	Acft Mfr: DEHAVILLAND/DHC-6	Acft Mfr: DOUGLAS/DC9-51
FAR Part: 121 SCHEDULED	FAR Part: 135 SCHEDULED	FAR Part: 135 SCHEDULED	FAR Part: 121 SCHEDULED	FAR Part: 135 SCHEDULED	FAR Part: 135 SCHEDULED	FAR Part: 135 SCHEDULED	FAR Part: 135 SCHEDULED	FAR Part: 135 SCHEDULED	FAR Part: 121 SCHEDULED
YDistance: D R 220	YDistance: R UNK	YDistance: UNK	YDistance: L UNK	YDistance: E L 85	YDistance: UNK	YDistance: D L 244	YDistance: D L 50	YDistance: D L 350	YDistance: E L 95
Owner Name: TRANSAMERICA AIRLINES, INC. Operator Name/DBA: GALAXY AIR LINES,INC. Rwy Surface Character: ROUGH TEXTURE XDistance: A4200 B4200	Owner Name: GENERAL ELECTRIC CREDIT CORP Operator Name/DBA: HORIZON AIRLINES, INC. Rwy Surface Character: XDistance: A3500	Owner Name: TRANS AIR, INC. Operator Name/DBA: TRANS AIR, INC. Rwy Surface Character: XDistance: UNK	Owner Name: SQUTHWEST AIRLINES CO. Operator Name/DBA: Rwy Surface Character: XDistance: 87500	Owner Name: Operator Name/DBA: BRITT AIRWAYS Rwy Surface Character: XDistance: A2950 C4825	Owner Name: Operator Name/DBA: ERA HELICOPTERS, INC. Rwy Surface Character: ROUGH TEXTURE XDistance: A1000 B1000	Owner Name: BEECHCRAFT ACCEPT. CORP. INC. Operator Name/DBA: CENTENNIAL AIRLINES, INC Rwy Surface Character: PORCUS XDistance: A 800 B1800	Owner Name: AIR MIDNEST, INC. Operator Name/DBA: Rwy Surface Character: ROUGH TEXTURE XDistance: A1500 B1525	Owner Name: METRO FLIGHT INC. Operator Name/DBA: EASTERN METRO EXPRESS Rwy Surface Character: XDistance: 81000	Owner Name: MORTHWEST AIRLINES Operator Name/DBA: Rwy Surface Character: XDistance: A3100 C4600
Arpt Name: DOBBINS AFB (MGE)	Arpt Mame: FRIEDMAN MEMORIAL (SUN)	Arpt Name: FT. LAUDERDALE INT'L (FLL)	Arpt Name: AMARILLO INTL (AMA)	Arpt Name: CLEVELAND-HOPKINS (CLE)	Arpt Name: MEKORYUK (MYU)	Arpt Name: GENERAL BREES FIELD ARPT (LAR)	Arpt Name: HUTCHINSON (HUT)	Arpt Mame: LUIS MUNUZMARIN INT'L (SJU)	Arpt Name: MADISON/DANE CNTY. (MSN) Wid: 150 Rwy Status: SMOM-WET Phase: LND
Wid: 300	Wid: 100	Wid: 100	Wid: 300	Wid: 150	Wid: 50	Wid: 100	Wid: 75	Wid: 200	
Rwy Status: DRY	Rwy Status: DRY	Rwy Status: DRY	Rwy Status: WET RUBBER DEPOSITS	Rwy Status: WET SNOW-COMPACTED	Rwy Status: ICE COVERED SMOW-DRY	Rwy Status: WET	Rwy Status: DRY	Rwy Status: DRY	
Phase: LND	Phase: LND	Phase: LND	Phase: LND	Phase: LND	Phase: LND	Phase: LWD	Phase: LND	Phase: T/O	
01/29/85 DOBBINS AFB, GA	03/06/85 HAILEY, 1D	03/30/85 FT. LAUDERDALE, FL	04/28/85 AMARILLO, TX	12/20/85 CLEVELAND, OH	02/07/86 MEKORYUK, AK	05/16/86 LARAMIE, WY	05/20/86 MUTCHINSON, KS	11/29/86 SAN JUAN, PR	12/01/86 MADISON, WI
Rwy 10: 29 Lgth: 10000	Rwy ID: 31 Lgth: 6600	Rwy 1D: 9 Lgth: 5316	Rwy ID: 4 Lgth: 13502	Rwy ID: 28 Lgth: 6015	Rwy 1D: 23 Lgth: 3500	Rwy 10: 30 Lgth: 6300	Rwy 1D: 17 Lgth: 4250	Rwy 1D: B Lgth: 10000	Rwy ID: 18 Lgth: 9005
Surface Type: COMCRETE	Surface Type: ASPHALT	Surface Type: ASPHALT	Surface Type: ASPHALT	Surface Type: ASPHALT	Surface Type: GRAVEL	Surface Type: ASPHALT	Surface Type: ASPHALT	Surface Type: ASPHALT	Surface Type: ASPHALT
Category: VEER	Category: VEER	Category: VEER	Category: VEER	Category: VEER	Category: VEER	Category: VEER	Category: VEER	Category: VEER	Category: VEER

Owner Name: GENERAL ELECTRIC CREDIT CORP. Acft Mfr: SWEARINGEN/SA227-AC Operator Name/DBA: SKY WEST AIRLINES FAR Part: 135 SCHEDULED Rwy Surface Character: FULLY GROOVED YDistance: LUNK	Owner Name: AMERICA WEST AIRLINES, INC. Acft Mfr: BOEING/737-2A6 Operator Name/DBA: Rwy Surface Character: XDistance: B3000	R SOUTH AIRLINES Acft Wfr: PIPER/PA-34-200 FAR Part: 135 SCHEDULED AFRICATER: TOTAL STANDARD	RO FLIGHT INC. Acft Wfr: CONVAIR/CV-580 BBA: FAR Part: 121 SCHEDULED sracter: YDistance: D L 300	Owner Name: BEECH ACCEPTANCE CORP., INC. Acft Mfr: BEECH/99-A Operator Name/DBA: SAN JUAN AIRLINES FAR Part: 135 SCHEDULED Rwy Surface Character: XDistance: UNK	Owner Name: Operator Name/DBA: SKYVEST AIRLINES FAR Part: 135 Rwy Surface Character: XDistance: UNK	Owner wame: CONTINENTAL AIRLINES, INC. Acft Mfr: MCDONNELL DOUGLAS/MD80
	((DRO)	RPORT (MIA) Owner Name: AIR SOUTH AIRLINES Operator Name/DBA: Rwy Surface Character: XDistance: UNK	TH (DFU) Operator Name/DBA: Rwy Surface Character: XDistance: A1770 B2200		(PIH) Owner Name: Operator Name/DBA: SKY Rwy Surface Character: XDistance: UNK	
Arpt Name: YUMA INT'L (YUM) 70 Wid: 150 Rwy Status: DRY Phase: LND	Arpt Name: DURANGO-LA PLATA (DRO) 00 Wid: 150 Rwy Status: SWOM-COMPACTED Phase: LND	Arpt Name: MIAMI INT'L AIRPORT (MIA) 00 Wid: 150 Rwy Status: DRY Phase: LMD	Arpt Name: DALLAS/FT. WORTH (DFW) 86 Wid: 150 Rwy Status: WET Phase: T/O	A Arpt Name: WILLIAM FAIRCHILD INT'L (CLM) 80 Wid: 160 Rwy Status: DRY Phase: LND	Arpt Name: POCATELLO MUNI 56 Wid: 150 Rwy Status: Phase: LNO	Arpt Name: STAPLETON (DEN)
01/10/87 YUMA, A2 Rwy 10: 35 Lgth: 5170 Surface Type: ASPHALT Category: VEER	02/25/87 DURANGO, CO Rwy 1D: 2 Lgth: 9200 Surface Type: ASPHALT Category: VEER	03/04/87 MIAMI, FL RLY ID: 9 R Lgth: 13000 Surface Type: ASPHALT Category: VEER	03/24/87 DALLAS, TX Rwy 10: 35 L Lgth: 11388 Surface Type: COMCRETE Category: VEER	11/17/87 PORT ANGELES, WA Rwy 1D: 26 Lgth: 5180 Surface Type: ASPHALT Category: VEER	12/15/87 POCATELLO**, 10 Rwy 10: 3 Lgth: 9056 Surface Type: Category: VEER	12/27/87 DENVER, CO

	Appendix	Appendix 6. LISTING OF OVERRUMS	PAGE 67
1			
10S	Arpt Name: LOS ANGELES INTL ()	Owner Name:	Acft Mfr: DOUGLAS/DC-10
Rwy 10: Lgth: 10285	rid:	Operator Name/DBA: CONTINENTAL AIRLINES	FAR Part: 121
Surface Type: TWO OR MORE	Rwy Status: WET	Rwy Surface Character:	
Category: OVER	Phase: 1/0	XDistance: 654	YDistance: 0
OS/10/78 MABITINSVILLE VA	Arst Memo: Blis Bing /		Acft Mfr. 01050/04-71
:	בילי	Orerator Name/DRA AMEDICAN AID	FAR Dart 135
Type: MACADAM	BLV Status: DRV	Rev Surface Character:	(C) -1 le 1 val
Category: OVER	Phase: 1/0	XD istance: UNK	YDistance: UNK
05/19/78 MOLAKAI, HI	Arot Name: MOLOKAI ()	Octor Name:	Acft Mfr: BEFCH/HIR
••		Operator Name/DBA: ALL HAWAII AI	FAR Part: 135
Type: MACADAM	Rwy Status: UNK/NR	Rwy Surface Character:	
Category: OVER	Phase: LND	XDistance: 184	YDistance: UNK
07/05/78 BFAUFORT SC	Arct Name: REALIFORT COUNTY C)	1	Acft Mfr. DIDEB/DA-12
••	Pin.	Operator Name/DBA: COSTAL PLAINS	FAR Part: 135
Type: MACADAM	Rev Status: VET	Rw Surface Character:	
Category: OVER	Phase: LWD	XDistance: 60	YDistance: UNK
07/00/78 BOCHESTER NV	C VINES ROBER : MANAGE CONTRACTOR		40.64 M60. BD1710H AC/4-44
•		Overator Mana ABA - 15219	EAD Darte 121
Type: MACADAM	RW Status: DRY	Rev Surface Character:	
Category: OVER	Phase: LW	XDistance: 728	YDistance: L 143
	_		
Bev ID: Lath: 6700	Arpt name: Willman Fleto () Uid:	Owner wame: Overator Wame/DRA: WODIN CENTRAL AIRLINES	ACTT MIT: DUNGLAS/DC-Y FAR Part: 121
Type: CONCRETS	Bev Status: 461	Rev Surface Character:	
Category: OVER	Phase: LND	XDistance: 738	YDistance: UNK
A1 32104 BATON BA1714		Part Henri	O-JUN SE INCL.
•	Did:	Oriel Mane/DRA: TEXAS INTERNATIONAL AIRLINES	FAR Part: 121
Type: CONCRET	Rev Status: WET	Ruy Surface Character:	
Category: OVER	Phase: LWD	XDistance: 350	YDistance: R 200
DO 20/00 HARITORD, CI	ATPU NAME: MAKITUKU-BKAIMAK ()	Correct Marie:	ACTT MIF: PIPEK/PA-23
Type: MACADAM	BCC CARRIES 1071	Confect Manachan: Conformed Air	TAK PBFC: 133
Category: OVER	Phase: LNO	XDistance: 49	YDistance: 0
03/11/81 NAZELTON, PA	Arot Name: HAZELTON MUNI ()	Order Reserve	Acft Mfr: BEECH/H18
Rwy 10: Lgth: 4900	C.d.	Operator Name/DBA: AIR PENNSYLVA	FAR Part: 135
Surface Type: MACADAM	RMY Status: SNOW-COVERED		
Category: OVER	Phase: 1/0	XDistance: 154	YDistance: 0
05/09/81 MARSHALL, AK	Arpt Name: MARSHALL ()	Owner Name:	Acft Mfr: CESSNA/207A
Rwy ID: Lgth: 1400	בים:	Operator Name/DBA: COASTAL AVN	FAR Part: 135
Surface Type: TWO OR MORE	Rwy Status: ROUGH	Rwy Surface Character:	WAT - comment
Category: Over	rase: Lab	AD ISLORKE: UNK	TOIStance: UNK

	Arpt Name: FT.LAUDERDALE ()	Owner Name:	Acft Wfr: BOEING/727
Rwy 1D: Lgth: 8048 Surface Type: MACADAM	Wid: Rwy Status: WET	Operator Name/DBA: PAN AMERICAN WORLD AIRWAYS Rwy Surface Character:	FAR Part: 121
Category: OVER	Phase: 1/0	XDistance: 421	VDistance: L 215
23/82 BOSTON, MA RWY ID: 15 Lgth: 9191	Arpt Name: BOSTON-LOGAN INTER'L () Wid: 150	Owner Name: WORLD AIRWAYS, INC. Operator Name/DBA:	Acft Mfr: MCDONNELL DOUGLAS/DC-10-30 FAR Part: 121 SCHEDULED
Surtace Type: CONCRETE Category: OVER	NWy Status: WE! Phase: LND	Rwy Surface Character: XDistance: 250	YDistance: L 110
PHILADELPHIA, PA 9 Lgth: 9500	Arpt Name: PHILADELPHIA INTL (PHL)	Owner Name: Operator Name/DBA: UNITED AIRLINES INC.	Acft Mfr: MCDOWNELL-DOUGLAS/DC-10-10 FAR Port: 121 SCHEDULED
Surface Type: ASPHALT Category: OVER	Rwy Status: WET Phase: 1/0	Rwy Surface Character: FULLY GROOVED XDistance: 1220	YDistance: R 25
15/82 LOS ANGELES**, CA Rwy ID: 25 L Lgth: 11096	Arpt Nome: LOS ANGELES INT'L (LAX) Wid: 200	Owner Name: CONNECTICUT BANK & TRUST CO. Operator Name/DBA: AIRCAL	Acft Mfr: BOEING/B737-2H4 FAR Part: 121
Surface Type: Category: OVER	Rwy Status: Phase: LMD	Rwy Surface Character: XDistance: UNK	YDistance: UNK
19/82 HARLINGEN, TX RMY ID: 17 Lgth: 8300 Surface Type: COMCRETE	Arpt Name: HARLINGEN IND.AIR PARK (HRL) Wid: 150 RWy Status: WATER COVERED	Owner Name: MEXICANA AIRLINES Operator Name/DBA: Rwy Surface Character: SMOOTH TEXTURE	Acft Mfr: BOEING/B-727-200 FAR Part: 121 SCHEDULED
05/82 BOISE, ID Rwy ID: 28 Lgth: 9763 Surface Type: ASPHALT Category: OVER	Arpt Name: BOISE AIR TERMINAL (BOI) Wid: 190 Rwy Status: DRY Phase: T/O	🔭 🙉	Acft Mfr: DOUGLAS/DC-9-31 FAR Part: 121 SCHEDULED YDistance: UMK
26/82 GUSTAVUS, AK Rwy 10: 1 Lgth: 5400 Surface Type: ASPHALT Category: OVER	Arpt Name: GUSTAVUS (GST) Wid: 340 Rwy Status: SNOW-WET Phase: T/O	Owner Name: LAYTON A . BENNETT Operator Name/DBA: Rwy Surface Character: SMOOTH TEXTURE XDistance: UNK	Acft Mfr: PIPER/PA-32R-300 FAR Part: 135 SCHEDULED YDistance: UNK
18/82 PELLSTOW, MI Rwy 10: 32 Lgth: 6512 Surface Type: ASPHALT Category: OVER	Arpt Name: EMMET COUNTY AIRPORT (PLN) Wid: 150 Rmy Status: ICE COVERED Phase: LND	Owner Name: REPUBLIC AIRLINES, INC. Operator Name/DBA: Rwy Surface Character: XDistance: 80	Acft Wfr: DOUGLAS/DC9-30 FAR Part: 121 SCHEDULED YDistence: 0
23/63 ANCHORAGE, AK Rwy 10: 24 R Lgth: 10600 Surface Type: ASPHALT Category: OVER	Arpt Name: ANCHORAGE INT'L. (ANC) Wid: 200 Rwy Status: ICE COVERED SNOW-COMPACTED Phase: T/O	Owner Name: KOREAN AIR LINES Operator Name/DBA: Rwy Surface Character: XDistance: 1434	Acft Mfr: MCDONNELL-DOUGLAS/DC-10-30C FAR Part: 129 SCHEDULED YDistence: R 40
28/84 JAMAICA, NY Rwy ID: 4 R Lgth: 10000 Surface Type: ASPMALT Category: OVER	Arpt Name: JOHN F KENNEDY INTL (JFK) Wid: 150 Rwy Status: Wet Phase: LND	Owner Name: DET NORSKE LUFTFARTSSLESKAB Operator Name/DBA: SCANDINAVIAN AIRLINES Rwy Surface Character: XDistance: 560	Acft Wfr: MCDONNELL DOUGLAS/DC-10-30 FAR Part: 129 SCHEDULED YDistance: 0

	Appendix 6.	Appendix 6. LISTING OF OVERRUNS	PAGE 69
05/27/84 HICKORY, NC Rwy 10: 24 Lgth: 6400 Surface Type: ASPHALT Category: OVER	Arpt Name: HICKORY (HKY) Wid: 140 Rwy Scatus: WET Phase: LNO	Owner Name: COASTAL STATES AVIATION INC. Operator Name/DBA: SUNBIRD AIRLINES, INC. Rwy Surface Character: XDistance: 240	Acft Mfr: CESSNA/402C FAR Part: 135 SCHEDULED YDistance: UNK
06/23/84 CHICAGO, IL Rwy 10: 22 R Lgth: 7500 Surface Type: COMCRETE Category: OVEN	Arpt Name: O'HARE INTL (ORD) Wid: 150 Rwy Status: WET Phase: LND	Owner Name: TRADEWINDS AIRWAYS LTD Operator Name/DBA: Rwy Surface Character: XDistance: 900	Acft Wfr: BOEING/707-323C FAR Part: 129 SCHEDULED YDistance: 0
01/31/85 LOMDOM, KY Rwy 1D: 5 Lgth: 6000 Surface Type: ASPHALT Category: OVER	Arpt Name: LONDOM-CORBIN (LO2) Wid: 150 Rwy Status: WET Phase: LND	Owner Name: UNITED PARCEL SERVICE CO. Operator Name/DBA: SAT-AIR, INC. Rwy Surface Character: XDistance: 260	Acft Mfr: SWEARINGEN/SA-227 FAR Part: 135 SCHEDULED YDistance: 0
02/05/85 CHARLOTTE, WC Rwy 1D: 18 L Lgth: 7845 Surface Type: CONCRETE Category: OVER	Arpt Name: CHARLOTTE/DOUGLAS (CLT) Wid: 150 Rwy Status: ICE COVERED Phase: LND	Owner Name: BO-S-AIRE AIRLINES, INC. Operator Name/DBA: BO-S-AIRE AIRLINES, INC. Rwy Surface Character: XDistance: 75	Acft Mfr: DQUGLAS/DC-3 FAR Part: 121 SCHEDULED YDistance: 0
06/27/85 SAN JUAN, PR Rwy 1D: 8 Lgth: 10002 Surface Type: ASPHALT Category: OVER	Arpt Name: LUIS MUNOZ MARIN INT'L (SJV) Wid: 200 Rwy Status: DRY Phase: T/O	Owner Name: AMERICAN AIRLINES, INC. Operator Name/DBA: Rwy Surface Character: XDistance: 62	Acft Wfr: MCDONNELL DOUGLAS/DC-10-10 FAR Part: 121 SCHEDULED YDistance: L 160
08/28/85 GREEN BAY, WI Rwy ID: 36 Lgth: 6000 Surface Type: CONCRETE Category: OVER	Arpt Name: AUSTIN STRAUBEL FLD (GRB) Wid: 150 Rwy Status: WET Phase: LND	Owner Name: SEC. PACIFIC COM LEASING INC. Operator Name/DBA: AIR WISCONSIN Rwy Surface Character: XDistance: UNK	Acft Mfr: BRITISM AEROSPACE/BAC 1-11-20 FAR Part: 121 SCHEDULED YDistance: 0
09/24/85 WASHINGTON**, DC Rwy 1D: 36 Lgth: 6869 Surface Type: Category: OVER	Arpt Name: WASHINGTON NATIONAL (DCA) Wid: 150 Rwy Status: DRY Phase: T/O	Owner Name: Operator Name/DBA: EASTERN AIRLINES Rwy Surface Character: XDistance: 580	Acft Mfr: BOEING/8-727 FAR Part: 121 YDistance: UNK
01/02/86 DETROIT, MI Rwy ID: 21 C Lgth: 8500 Surface Type: ASPHALT Category: OVER	Arpt Name: DETROIT METROPOLITAN (DTW) Wid: 200 Rwy Status: ICE COVERED SNOW-COMPACTED Phase: LND	Owner Name: WILMINGTOM TRUST COMPANY TRUS Operator Name/DBA: AMERICAM AIRLINE, INC. Rwy Surface Character: FULLY GROOVED XDistance: 449	Acft Mfr: MCDONNELL DOUGLAS/DC-10-10 FAR Part: 121 SCHEDULED YDistance: L 40
02/21/86 ERIE, PA Rwy ID: 24 Lgth: 6000 Surface Type: ASPHALT Category: OVER	Arpt Name: ERIE INTL (KER) Wid: 150 Rwy Status: SNOW-WET Phase: LND	Owner Name: US AIR, INC. Operator Name/DBA: US AIR, INC. Rwy Surface Character: FULLY GROOVED XDistance: 180	Acft Wfr: MCDONNELL-DOUGLAS/DC-9-31 FAR Part: 121 SCHEDULED YDistance: L 86
03/13/86 CHARLESTOM, SC Rwy 1D: 15 Lgth: 9001 Surface Type: ASPHALT Category: OVER	Arpt Name: CHARLESTON AFB/INTL. (CHS) Wid: 200 Rwy Status: WET Phase: LND	Owner Name: EASTERN AIR LINES Operator Name/DBA: Rwy Surface Character: XDistance: 369	Acft Mfr: MCDONNEL DOUGLAS/DC-9-31 FAR Part: 121 SCHEDULED YDistance: R 268

Arpt Name: CHARLOTTE DOUGLAS INTL () Wid: 150 Rwy Status: WET Phase: LND RMY ID: 36 R LGth: 7845 Surface Type: ASPHALT Category: OVER 10/25/86

08/03/87 DENVER, CO Rwy ID: 35 R Lgth: 12000 Surface Type: CONCRETE Category: OVER

Arpt Name: STAPLETON INT'L (DEN)

Rwy Status: DRY

Wid: 200

Phase: 1/0

11/18/87 ATMAUTLUAK, AK Rwy ID: 15 Lgth: 2000 Surface Type: ICE Category: OVER

Arpt Name: ATMAUTLUAK (08A) Rwy Status: DRY Phase: LND Wid: 80

Operator Name/DBA: PIEDMONT AIRLINES Rwy Surface Character: FULLY GROOVED XDistance: 445 Owner Name:

Owner Name: CONTINENTAL AIRLINES, INC. RWy Surface Character: FULLY GROOVED Operator Name/DBA: XDistance: 418

Operator Name/DBA: RYAN AIR SERVICE, INC Rwy Surface Character: XDistance: 110 Owner Name: WILFRED RYAN

Acft Mfr: BOEING/737-222 FAR Part: 121 SCHEDULED Acft Mfr: AIRBUS INDUSTRIES/A30084-203 FAR Part: 121 SCHEDULED

0

YD istance:

0 YDistance:

FAR Part: 135 SCHEDULED Acft Mfr: CESSNA/208

Mistance: L 50

Acft Mfr: BEECH/C45H	Acft Mfr: BEECH/99	Acft Mfr: CESSMA/337F	Acft Mfr: BOEING/727	Acft Mfr: BEECH/18	Acft Wfr: AERO COMDR/680	Acft Mfr: CONVAIR/580	Acf: Mfr: CESSNA/402A	Acft Mfr. AERO COMDR/5008	Acft Mfr: CESSNA/1820
FAR Part: 135	FAR Part: 135	FAR Part: 135	FAR Part: 121	FAR Part: 135	FAR Part: 135	FAR Part: 121	FAR Part: 135	FAR Part: 135	FAR Part: 135
VDistance:	YDistance: L1031	YDistance:	YDistance:	YDistence:	YDistance: UNK	YDistance:	YDistance: UNK	YDistance: 0	YDistance: UNK
Owner Name: Operator Name/DBA: FLT EXPRES CA Rwy Surface Character: XDistance: *1M	Owner Name: Operator Name/DBA: COLUMBIA PACI Rwy Surface Character: XDistance: 1669	Owner Name: Operator Name/DBA: ISLAND AIR,IN Rwy Surface Character: XDistance: *.67NM	Owner Name: Operator Name/DBA: NATIONAL AIRLINES Rwy Surface Character: XDistance: *3.5M	Owner Name: Operator Name/DBA: GREAT WESTERN Rwy Surface Character: XDistance: *2.7M NE APT	Owner Name: Operator Warm-/DBA: AAA AIR ENTER Rwy Surface Character: XGistance: UNK	Owner Name: Operator Name/DBA: WORTH CENTRAL AIRLINES Rwy Surface Character: XDistance: *2M E APT	Owner Name: Operator Name/DBA: CAPITOL AIR SERVICE Rwy Surface Character: XDistance: UNK	Owner Name: Operator Name/DBA: COMBS AIRWAYS Rwy Surface Character: XDistance: 5280	Owner Name: Operator Name/DBA: AIR CENTER IN RMy Surface Character: XDistance: UNK
Arpt Name: GREATER WILMINGT () Wid: Rwy Status: ICE COVERED Phase: LMD	Arpt Name: RICHLAND () Wid: Rwy Status: Phase: 1/0	Arpt Name: GUAM INTL () Wid: Rwy Status: DRY Phase: 7/0	Arpt Name: PENSACOLA RGNL () Wid: Rwy Status: Phase: LWD	Arpt wame: BRADLEY INTL () Wid: Rwy Status: Phase: LWD	Arpt Name: () Wid: Rwy Status: Phase: LMD	Arpt Name: KALAMAZOO MUNI () Wid: Rwy Status: Phase: T/O	Arpt Name: MANHATTAN MUNI (MHK) Wid: Rwy Status: DRY Phase: T/O	Arpt Name: GREAT FALLS INTL () Wid: Rwy Status: WET Phase: LND	Arpt Name: SAN ANTONIO INTL () Wid: Rwy Status: Phase: LMD
01/17/78 MEW CASTLE, DE	02/10/78 RICHLAND, WA	03/01/78 AGAWA, GO	05/08/78 PENSACOLA, FL	06/19/78 WINDSOR LOCKS, CT	06/23/78 ASHLAND, ME	07/25/78 KALAMAZOO, MI	08/03/78 MANHATTAN, KS	09/06/78 GREAT FALLS, MT	09/07/78 SAN ANTONIO, TX
Rwy 10: Lgth: 7000	Rwy 1D: Lgth: 4000	Rwy ID: Lgth: 10000	Rwy ID: Lgth:	Rwy ID: Lgth:	Rwy ID: Lgth:	Rwy 1D: Lgth:	Rwy ID: Lgth: 5500	Rwy 1D: Lgth: 10500	Rwy ID: Lgth:
Surface Type: MACADAM	Surface Type: MACADAM	Surface Type: MACADAM	Surface Type:	Surface Type:	Surface Type:	Surface Type:	Surface Type: CONCRETE	Surface Type: COMCRETE	Surface Type:
Category: OTHER	Category: OTHER	Category: OTHER	Category: OTHER	Category: OTHER	Category: OTHER	Category: OTHER	Category: OTHER	Category: 0TMER	Category: OTHER

Acft Mfr: PIPER/PA-31 FAR Part: 135 YDistance:	Acft Mfr: BEECH/G18S FAR Part: 135 YDistance: Acft Mfr: CESSNA/402 FAR Part: 135	Acft Wfr: DOUGLAS/DC-8 FAR Part: 121 YDistance: Acft Wfr: BEECH/G18S FAR Part: (35 YDistance: UNK	Acft Wfr: DOUGLAS/DC-9 FAR Part: 121 YDistance: L 825 Acft Wfr: FRAKES/W298 FAR Part: 121 YDistance: R 137	Acft Wfr: BEECH/E18S FAR Part: 135 YDistance: L1245 Acft Wfr: DEHAVILLAN/DHC-6 FAR Part: 135 YDistance: Acft Wfr: BEECH/BE-70 FAR Part: 135
Owner Name: Operator Name/DBA: APPLACHIAN FL Rwy Surface Character: XDistance: *2M	Owner Name: Operator Name/DBA: FESTUS FLYING Rwy Surface Character: XDistance: *7M APT Owner Name: Operator Name/DBA: RAPID AIR INC Rwy Surface Character: XDistance: UNK	Owner Name: Operator Name/DBA: UNITED AIRLINES Rwy Surface Character: XDistance: *6.1MM APT Owner Name: Operator Name/DBA: UNION FLIGHTS Rwy Surface Character: XDistance: UMK	Owner Name: Operator Name/DBA: EASTERN AIRLI Rwy Surface Character: XDistance: 5700APP Owner Name: Operator Name/DBA: USAIR Rwy Surface Character: XDistance: 60	Owner Name: Operator Name/DBA: Rwy Surface Character: XDistance: 5565 APP Owner Name: Operator Name/DBA: ROCKY MOUNTAI Rwy Surface Character: XDistance: *1NH ESE Owner Name: Operator Name/DBA: UNIVERSAL AIR Rwy Surface Character: XDistance: 500
Arpt Name: TRI-CITIES () Wid: Rwy Status: DRY Phase: LND	Arpt Name: HAYS MUNI () Wid: Rwy Status: WET Phase: LND Arpt Name: () Wid: Rwy Status: Phase: LND	Arpt wame: PORTLAND INTL () Wid: Rwy Status: DRY Phase: LND Arpt wame: SACRAMENTO EXEC () Wid: Rwy Status: UNK/NR Phase: T/O	Arpt Name: DADE-COLLIER JET () Wid: Rwy Status: DRY Phase: T/O Arpt Name: BENEDUM () Wid: Rwy Status: SNOW-COVERED Phase: T/O	Arpt Name: INDIANAPOLIS INT () Wid: Rwy Status: DRY Phase: T/O Arpt Name: CHEYENNE MUNI () Wid: Rwy Status: Phase: T/O Arpt Name: GULFPORT-BILOXI () Wid: Rwy Status: Phase: T/O
09/19/78 BLOUNTVILLE, TN Rwy ID: Lgth: 6599 Surface Type: MACADAM Category: OTHER	11/16/78 HAYS, KS Rwy ID: Lgth: 5700 Surface Type: CONCRETE Category: OTHER 12/08/78 HASTINGS, MM Rwy ID: Lgth: Surface Type: Category: OTHER	12/28/78 PORTLAND, OR Rwy ID: Lgth: 11014 Surface Type: MACADAM Category: OTHER 01/04/79 SACRAMENTO, CA Rwy ID: Lgth: 3954 Surface Type: MACADAM Category: OTHER	02/09/79 MIAMI, FL RWY ID: Lgth: 10500 Surface Type: MACADAM Category: OTHER 02/12/79 CLARKSBURG, WV RWY ID: Lgth: 5198 Surface Type: TWO OR MORE Category: OTHER	02/27/79 INDIANAPOLIS, IN Rwy ID: Lgth: 7600 Surface Type: CONCRETE Category: OTHER Rwy ID: Lgth: 4997 Surface Type: Category: OTHER 03/01/79 GULFPORT, MS Rwy ID: Lgth: 5700 Surface Type: Category: OTHER

Acft Mfr: WORD-AVIOW/262	Acft Mfr: BEECH/E18S	Acft Wfr: BEECH/E18S	Acft Wfr: BEECH/E-18	Acft Wfr: BEECH/D-18	Acft Wfr: DQUGLAS/DC-10	Acft Wfr: DEHAVILLAM/DHC-6	Acft Mfr: DEMAVILLAN/DHC-6	Acft Mfr: DEHAVILLAN/DH-114	Acft Mfr; PIPER/PA-32
FAR Part: 135	FAR Part: 135	FAR Part: 135	FAR Part: 135	FAR Part: 135	FAR Part: 121	FAR Part: 135	FAR Part: 121	FAR Part: 135	FAR Part: 135
YDistance:	YDistence: L 500	YDistance: UNK	YDistance: UNK	YDistance: UNK	YDistance: L1100	YDistance:	YDistance: 0	YDistance: R 792	YDistance: 0
Owner Wame: Operator Wame/DBA: SWIFT AIRE LI RWy Surface Character: XDistance: *1.6MM	Owner Name: Operator Name/DBA: GREAT WESTERN Rwy Surface Character: XDistance: 350	Owner Name: Operator Name/DBA: BURL AIR FREI Rwy Surface Character: XDistance: UNK	Owner Name: Operator Name/DBA: PROVIDENCE AI Rwy Surface Character: XDistance: *.25M	Owner Name: Operator Name/DBA: ALII AIR HAWA Rwy Surface Character: XDistance: 1500	Owner Name: Operator Name/DBA: AMERICAN AIRLINES Rwy Surface Character: XDistance: 4500	Owner Name: Operator Name/DBA: DOWNEAST AIRL Rwy Surface Character: XDistance: *1.2M	Owner Name: Operator Name/DBA: AIR NEW ENGLA Rwy Surface Character; XDistance: 9000	Owner Name: Operator Name/DBA: PRINAIR Rwy Surface Character: XDistance: 5500 APP	Owner Name: Operator Name/DBA: AIR CAROLINA Rwy Surface Character: XDistance: 2400
Arpt Name: LOS ANGELES INTL () Wid: Rwy Status: Phase; T/O	Arpt Name: CEDAR RAPIDS MUN () Wid: Rwy Status: SLUSH COVERED Phase: 1/0	Arpt Wame: OHARE INTL () Wid: Rwy Status: DRY Phase: T/O	Arpt Name: STEWART () Wid: Rwy Status: DRY Phase: T/O	Arpt Name: MOLOKA! () Wid: Rwy Status: WET Phase: T/0	Arpt Wame: CHICAGO-O'HARE () Wid: Rwy Status: DRY Phase: T/O	Arpt Name: KNOX COUNTY RGNL () Wid: Rwy Status: Phase: LND	Arpt Name: BARNSTABLE MUNI () Wid: Rwy Status: WET Phase: LND	Arpt Name: ALEX HAMILTON () Wid: Rwy Status: Phase: T/O	Arpt Name: HICKORY MUNICIPA () Wid: Rwy Status: Phase: LND
03/10/79 MARINA DEL REY, CA	03/23/79 CEDAR RAPIDS, 1A	04/03/79 CHICAGO, IL	04/04/79 MEMBURG, NY	04/16/79 MOLOKAI, HI	05/25/79 CHICAGO, 1L	05/30/79 ROCKLAND, ME	06/17/79 HYANNIS, MA	07/24/79 ST CROIX, VI	08/21/79 HICKORY, NC
Rwy ID: Lgth:	Rwy ID: Lgth: 5450	Rwy ID: Lgth: 10140	Rwy 10: Lgth: 6006	Rwy ID: Lgth: 4493	Rwy ID: Lgth: 10003	Rwy ID: Lgth:	Rwy 1D: Lgth: 5563	Rwy 1D: Lgth: 7612	Rwy ID: Lgth: 6402
Surface Type:	Surface Type: Macadam	Surface Type: CONCRETE	Surface Type: MacADAM	Surface Type: MACADAM	Surface Type: COMCRETE	Surface Type:	Surface Type: MACADAM	Surface Type: MACADAM	Surface Type: WACADAM
Category: OTMER	Category: Other	Category: OTHER	Category: OTHER	Category: OTHER	Category: OTHER	Category: OTHER	Category: OTHER	Category: OTHER	Category: OTHER

Rwy ID: Lgth: 9501 Surface Type: MACADAM	Arpt wome: MARRISBURG INTL () Wid: Rev Status: DRY	Owner Name: Operator Name/DBA: KEYSTONE AVIA Rwy Surface Character:	Acft Wfr: BEECH/58 FAR Part: 135
Category: OTHER	Phase: LWD	XDistance: 8892	YDistance: 0
SUFFIELD, CT	Arpt Name: BRADLEY INTL ()	Owner Name:	Acft Mfr: BEECH/E18S
Rwy 10: Lgth: 5246 Surface Type: CONCRETE	Wid: Rwy Status: DRY	Operator Name/DBA: MOUNTAIN AIR Rwy Surface Character:	FAR Part: 155
Category: OTHER	Phase: 1/0	XDistance: 2600	YDistance: L1100
10/08/79 COVINGTON, KY	Arpt Name: GRTR CINCINNATI ()	Owner Name:	Acft Mfr: PIPER/PA-31
Rwy 10: Lgth: 9500	wid:	Operator Name/DBA: COMAIR, INC.	FAR Part: 135
Surface Type: MACADAM Category: OTHER	rwy Status: UKT Phase: T/O	NWY SULTACE CHARACTER: XDistance: 8695	YDistance: R1189
11/02/79 GREEWYILLE. SC	Arpt Name: GREENVILLE DUNTU ()	Owner Name:	Acft Mfr: PIPER/PA-31
Rwy 1D: Lgth: 5393	:pin	Operator Name/DBA: BANKAIR, INC	FAR Part: 135
Surface Type: MACADAM Category: OTHER	Rwy Status: DRY Phase: T/O	NWY Surface Character: XDistance: *1M WW APT	YD istance:
11/16/79 TUSAYAN, AZ	Arot Name: GRAND CANYON ()	Owner Name:	Acft Mfr: MARTIN/404
Rwy 10: Lgth: 9000	rid:	Operator Name/DBA:	FAR Part: 121
Surface Type: MACADAM Category: OTHER	Rwy Status: DRY Phase: 7/0	KWY SUTTBOOK CHARACTER: XDistance: 7531	YDistance: L2447
01/18/80 ST.CROIX, VI	Arpt Name: ALEX HAMILTON ()	Ourser Name:	Acft Mfr: PIPER/PA-31
Rwy 10: Lgth: 7612	vid:	Operator Name/DBA: EASTERN CARIB	FAR Part: 135
Surface Type: MACADAM Category: OTHER	Rwy Status: DRY Phase: T/O	Mwy Surface Character: XDistance: #1.5M SSE	YDistance:
02/29/80 MOAB, UT	Arpt Name: CANYONLANDS ()	Ourer Name:	Acft Mfr: PIPER/PA-31
Rwy ID: Lgth: 6901 Surface Tyme: MACADAM	Vid:	Operator Name/DBA: TRANSWESTERM Buy Surface Character:	FAR Part: 135
Category: OTHER	Phase: 1/0	XDistance: 963	YDistance: 0
03/21/80 HOUSTON, TX	Arpt Name: WILLIAM P.HOBBY ()	Owner Name:	Acft Mfr: PIPER/PA-31
Rwy 10: Lgth: 7602	wid:	Operator Name/DBA: EAGLE COMPUTE	FAR Part: 135
Surface Type: LUMLKETE Category: OTHER	NAY Status: UKY Phase: T/O	NW SUTBEE CIBIBLES: XDistance: 6500 APP	YDistance: R1275
FORT WORTH, T)	AFPT Name: MANGHAM ()	Owner Name:	Acft Mfr: PIPER/PA-31
Rwy 10: Lgth: 250	Vid: Poy Station LET	Operator Name/DBA: ASAP AIR,INC Pay Surface Character:	FAR Part: 135
Category: OTHER	Phase: T/O	XDistance: 500	YDistance: UNK
	Arpt Name: ALDER CREEK ()	Owner Name:	Acft Mfr: CESSNA/207
Rwy 10: Lgth: 1800	vid:	Operator Name/DBA: AIR NORTH	FAR Pert: 135
SUFTRCE Type: DIRI	KWY STRIUS: KUUCH	ANY SULTACE CIRCLET:	

Acft Mfr: AERO COMDR/680V	Acft Mfr: CESSNA/404	Acft Mfr: CESSNA/207	Acft Wfr: DEMAVILLAM/DHC-6	Acft Wfr: CESSNA/207	Acft Wfr: BEECH/99A	Acft Wfr: PIPER/PA-28R	Acft Mfr: PIPER/PA-31	Acft Mfr: PIPER/PA-31	Acft Wfr: BEECH/95-C55
FAR Part: 135	FAR Part: 135	FAR Pert: 135	FAR Part: 135	FAR Part: 135	FAR Part: 135	FAR Part: 135	FAR Part: 135	FAR Part: 135	FAR Part: 135
YDistance:	YDistance:	YDistance: L 150	YDistance: UNK	YDistance: UNK	YDistance:	YDistance: UNK	YDistance: UNK	YDistance: 0	YDistance:
Owner Name: Operator Name/DBA: ASTRO WINGS 1 Rwy Surface Character: XDistance: *1.5M	Owner Name: Operator Name/DBA: SCENIC AIRLIN Rwy Surface Character: XDistance: *3M S APT	Owner Name: Operator Name/DBA: AURORA AIR SE Rwy Surface Character: XDistance: 600	Owner Name: Operator Name/DBA: RIO AIRLINES Rwy Surface Character: XDistance: 2800 APP	Owner Name: Operator Name/DBA: KODIAK WESTER Rwy Surface Character: XDistance: UNK	Owner Name: Operator Name/DBA: CASCADE AIRWA Rwy Surface Character: XDistance: *4.5NM	Owner Name: Operator Name/DBA: BANKAIR INC. Rwy Surface Character: XDistance: UNK	Owner Name: Operator Name/DBA: DESERT PACIFI Rwy Surface Character: XDistance: UNK	Owner Name: Operator Name/DBA: GREEN HILLS A Rwy Surface Character: XDistance: 5100	Owner Name: Operator Name/DBA: AERODYNE,INC Rwy Surface Character: XDistance: "7M SW APT
Arpt Name: ALLEN C THOMPSON () Wid: Rwy Status: WET Phase: LWD	Arpt Name: GRND CYN NATL PK () Wid: Rwy Status: DRY Phase: T/O	Arpt Name: FAIRBANKS INTL () Wid: Rwy Status: DRY Phase: T/O	Arpt Name: WICHITA FALLS MU () Wid: Rwy Status: DRY Phase: T/O	Arpt Name: LEVELOCK () Wid: Rwy Status: DRY Phase: 7/0	Arpt Name: SPOKANE INTL () Wid: Rwy Status: UMK/NR Phase: LND	Arpt Nome: SPARTANBURG () Wid: Rwy Status: DRY Phase: T/O	Arpt Name: ERNEST A. LOVE () Wid: Rwy Statum: DRY Phase: LMD	Arpt Name: CLARENCE CANNON () Wid: Rwy Status: UMK/NR Phase: LND	Arpt Name: EAU CLAIRE MLN:1 () Wid: Rwy ! us: Phase: LND
07/07/80 JACKSON, MS	07/21/80 TUSAYAN, AZ	09/12/80 FAIRBANKS, AK	09/21/80 WICHITA FALLS, TX	09/29/80 LEVELOCK, AK	01/20/81 SPOKANE, WA	02/02/81 RCEBUCK, SC	02/10/81 PRESCOTT, AZ	03/04/81 KIRKSVILLE, MO	03/26/61 EAU CLAIREI, WI
Rwy 10: Lgth: 8500	Rwy ID: Lgth: 8999	Rwy ID: Lgth: 3200	Rwy ID: Lgth: 7000	Rwy ID: Lgth: 1880	Rwy ID: Lgth: 9000	Rwy ID: Lgth: 5203	Rwy ID: Lgth: 7600	Rwy 10: Lgth: 6004	Rwy ID: Lgth: 7300
Surface Type: MACADAM	Surface Type: Macadam	Surface Type: MACADAM	Surface Type: MACADAM	Surface Type: DIRT	Surface Type: MACADAM	Surface Type: MACADAM	Surface Type: MACADAM	Surface Type: COMCRETE	Surface Type:
Category: OTHER	Category: OTHER	Category: OTHER	Category: OTHER	Category: OTHER	Category: OTHER	Category: OTHER	Category: OTHER	Category: OTHER	Category: OTHER

Acft Mfr: PIPER/PA-31	Acft Mfr: BOEING/737-222	Acft Mfr: CONVAIR/440	Acft Mfr: NIHON/YS-11A	Acft Mfr: BOEING/727-235	Acft Mfr: BEECH/G18S	Acft Mfr: CESSNA/207A	Acft Mfr: MCDONNELL-DOUGLAS/DC-8-54F	Acft Mfr: DEHAVILLAND/DHC-6-300	Acft Mfr: DOUGLAS/DC-4-C55B
FAR Part: 135	FAR Part: 121 SCHEDULED	FAR Part: 135 SCHEDULED	FAR Part: 121 SCHEDULED	FAR Pert: 121 SCHEDULED	FAR Part: 135 SCHEDULED	FAR Part: 135 SCHEDULED	FAR Part: 121 SCHEDULED	FAR Part: 135 SCHEDULED	FAR Part: 121 SCHEDULED
YDistance:	YDistance:	YDistence:	YDistance: UNK	YDistance:	YDistance: UNK	YDistance: UNK	YDistance: R1200	YDistance:	YDistance: R5280
Owner Name: Operator Name/DBA: EAGLE A!RLINE Rwy Surface Character: XDistance: *1M E APT	Owner Name: AIR FLORIDA, INC Operator Name/DBA: Rwy Surface Character: FULLY GROOVED XDístante: *.75 NM	Owner Name: EMISSARY AIRWAYS, INC. Operator Name/DBA: ISLAND AIRLINES HAWAII INC. Rwy Surface Character: XDistance: *2M APT	Owner Name: REEVE ALEUTIAN Operator Name/DBA: Rwy Surface Character: XDistance: UNK	Owner Name: PAN AMERICAN WORLD A/W Operator Name/DBA: Rwy Surface Character: POROUS XDistance: *.75NM	Owner Name: INDIANAPOLIS AIR CHARTER, INC. Operator Name/DBA: Rwy Surface Character: FULLY GROOVED XDistance: 2700 APP	Owner Name: MAROLDS AIR SERVICE Operator Name/DBA: MAROLDS AIR SERVICE Rwy Surface Character: ROUGH TEXTURE XDistance: 2650	Owner Name: UNITED AIRLINES Operator Name/DBA: Rwy Surface Character: FULLY GROOVED XDistance: 8800	Owner Name: SIERRA PACIFIC AIRLINES Operator Name/DBA: Rwy Surface Character: XDistance: *1.7M SE APT	Owner Name: PACIFIC AIR EXPRESS Operator Name/DBA: Rwy Surface Character: XDistance: 6120
Arpt Name: HOBBY () Wid: Rwy Status: Phase: T/O	Arpt Name: () Wid: 150 Rwy Status: SNOW-WET Phase: T/0	Arpt wame: HONOLULU INTL () Wid: Rwy Status: Phase: T/O	Arpt Name: () Wid: Rwy Status: Phase: LMD	Arpt Name: () Wid: 150 Rwy Status: WET Phase: T/0	Arpt Name: INDIANAPOLIS INTERN. (IND) Wid: 150 Rwy Status: WET Phase: T/O	Arpt Name: ANIAK (ANI) Wid: 150 Rwy Status: Phase: T/O	Arpt Name: DETROIT METRO (DTW) Wid: 200 Rwy Status: DRY Phase: T/0	Arpt Name: FRIEDMAN MEMORIEL () Wid: 100 Rwy Status: Phase: LND	Arpt Name: KANULUI (OGG) Wid: Rwy Status: Phase: LND
04/26/81 HOUSTON, TX	01/13/82 MASHINGTON, DC	01/17/82 HONOLULU, HI	02/16/82 KING SALMON, AK	07/09/82 NEW ORLEANS, LA	09/17/82 INDIANAPOLIS, IN	01/07/83 ANIAK, AK	01/11/83 DETROIT, MI	02/15/83 HAILEY, ID	06/29/83 KAMULUI, HI
Rwy ID: Lgth:	Rwy ID: 36 Lgth: 6869	Rwy ID: Lgth:	Rwy ID: Lgth:	Rwy ID: 10 Lgth: 9227	Rwy ID: 31 Lgth: 7604	Rwy ID: 28 Lgth: 6000	Rwy ID: 21 R Lgth: 10501	Rwy ID: 31 Lgth: 6600	Rwy ID: Lgth:
Surface Type:	Surface Type: ASPHALT	Surface Type:	Surface Type:	Surface Type: COMCRETE	Surface Type: ASPHALT	Surface Type:	Surface Type: COMCRETE	Surface Type:	Surface Type:
Category: OTHER	Category: OTHER	Category: OTHER	Category: OTHER	Category: OTHER	Category: OTHER	Category: OTHER	Category: OTHER	Category: OTHER	Category: OTHER

	; ; ; ;	Appendix 7. LISTING OF	LISTING OF OTHER A/1'S IN AIRPORT VICINITY	PAGE 77
07/26/83 RICHMOND, VA Rwy ID: 33 Lgth: 8 Surface Type: ASPHALT Category: OTHER	6668	Arpt Name: BYRD INTERNATIONAL (RIC) Wid: 150 Rwy Status: DRY Phase: LND	Owner Name: SILVER KRIS SERVICES LTD. Operator Name/DBA: Rwy Surface Character: XDistance: *1M SSE APT	Acft Wfr: P1PER/PA-31-350 FAR Part: 135 SCHEDULED YDistance:
09/08/83 FAILUA-KONA, HI Rwy 10: Lgth: Surface Type: Category: OTHER	=	Arpt Name: KEAHOLE (KOA) Wid: Rwy Status: Phase: T/O	Owner Name: AIRTOUR ACQUISITION CORP. Operator Name/DBA: PANORAMA AIRTOUR Rwy Surface Character: XDistance: *1M NW APT	Acfi Mfr: BEECH/H18S FAR Part: 135 SCHEDULED YDistance:
08/02/84 VIEQUES, PR Rwy ID: 9' Lgth: 2 Surface Type: ASPHALT Category: OTHER	2500	Arpt Name: VIEQUES (VQS) Wid: 75 Rwy Status: DRY Phase: 1/0	Owner Name: VIEQUES AIR LINK, INC Operator Name/DBA: VIEQUES AIR LINK, INC. Rwy Surface Character: XDistance: UNK	Acft wfr: BRITTEN NORMAN/BN-2A ISLANDER FAR Part: 135 SCHEDULED YDistance: UNK
09/07/84 HAPLES, FL Rwy ID: Lgth: 5 Surface Type: ASPHALT Category: OTHER	2000	Arpt Name: MAPLES MUNI (APF) Wid: 150 Rwy Status: DRY Phase: T/O	Owner Name: PROVINCETOWN-BOSTON AIRLINES Operator Name/DBA: PROVINCETOWN-BOSTON AIRLINES Rwy Surface Character: XDistance: *3.5M NE API	Acft Mfr: CESSNA/402C FAR Part: 135 SCHEDULED YDistance:
10/18/84 SEDONA, AZ Rwy 1D: Lgth: Surface Type: Category: OTHER		Arpt Name: SEDONA (SEZ) Wid: Rwy Status: Phase: LND	Owner Name: ELLIS F. GARDNER Operator Name/DBA: SEDONA AIR CENTER Rwy Surface Character: SMOOTH XDistance: *.5M S APT	Acft Wfr: CESSNA/T207A /AR Part: 135 SCHEDULED YDistence:
12/06/84 JACKSONVILLE, RNY ID: 31 Lgth: 7 Surface Type: ASPHALT Category: OTHER	ا ال 7700	Arpt Name: JACKSONVILLE INT'L (JAX) Wid: 150 Rwy Status: DRY Phase: T/O	Owner Name: PROVINCETOWN-BOSTON AIRLINES Operator Name/DBA: PROVINCETOWN-BOSTON AIRLINES Rwy Surface Character: XDistance: 7800	Acft Mfr: EMBRAER BANDEJRANTE/EMB-110P1 FAR Part: 135 SCHEDULED YDistance: R 85
12/12/84 MIAMI, FL Rwy ID: 12 Lgth: 9 Surface Type: ASPHALT Category: OTHER	00%	Arpt Name: MIAHI INTERNATIONL (MI) Wid: 150 Rwy Status: DRY Phase: LND	Owner Name: VINCENT J. FINAZZO Operator Name/DBA: SQUTHERN EXPRESS AIRWAYS,INC. Rwy Surface Character: XDistance: *.5M	Acft Mfr: PIPER/PA-31-350 FAR Part: 135 SCHEDULED YDistance:
12/17/84 BAINBRIDGE, NY Rwy 1D: 7 Lgth: 4 Surface "ype: ASPHALT Category: OTHER	4220	Arpt Name: SIDNEY (N23) Wid: 75 Rwy Status: DRY Phase: LW	Owner Name: FORD-AIRE, INC. Operator Name/DBA: SUSQUEHANNA AIRLINES, INC. Rwy Surface Character: XDistance: *.85M N APT	Acft Mfr: PIPER/PA-23-250 FAR Part: 135 SCHEDULED YDistance:
01/21/85 KEWO, NV Rwy 1D: 16 R Lgth: 9 Surface lype: CONCRETE Category: OTHER	0006	Arpt Name: RENO CANNON INTL (RNO) Wid: 150 Rwy Status: DRY Phase: 1/0	Owner Name: CONSOLIDATED CARRIER INT'L Operator Name/DBA: GALAXY AIRLINES, INC. Rwy Surface Character: XDistance: 7920	Acft Mfr: LOCKHEED/188C FAR Part: 121 MON-SCHEDULED YDistance: R3960
02/04/85 SOLDOTNA, AK Rwy ID: 25 Lgth: 4 Surface Type: MACADAM Category: OTHER	4973	Arpt Name: SOLDOINA (SXQ) Wid: 130 Rwy Status: SNOW-COMPACTED Phase: LND	Owner Name: WORTH PACIFIC AIRLINES Operator Name/DBA: WORTH PACIFIC AIRLINES Rwy Surface Character: SMOOTH KDistance: *1.5M SE APT	Acft Mfr: BEECH/65-A80 FAR Part: 135 SCHEDULED YDistance:

Appendix 7. LISTING OF OTHER A/1'S IN AIRPORT VICINITY

02/05/85 PHILADELPHIA, PA	Arpt Name: PHILADELPHIA INTL (PHL) Wid: 150	Owner Name: AIRBORNE EXPRESS, INC. Operator Name/DBA:	Acft Mfr: MCDONNELL-DOUGLAS/DC-9-15 FAR Part: 121 SCHEDULED
Surface Type: CONCRETE Category: 01MER	rwy status: SNUM-tumPAtieu Phase: 1/0	KWY SULTAGE CHARACTER: XDistance: UNK	YDistance: UNK
02/06/85 ALTUS, OK	Arpt Nome: ALTUS AFB (LTS)	Owner Name: ALTUS AIRLINE, INC Operator Name/DRA: AITHS AIRHINE INC.	Acft Mfr: CESSNA/4028 FAR Part: 135 SCUEDILED
. <u> </u>	Rwy Status: DRY Phase: LMD	Rwy Surface Character: XDistance: *1.5 NNE	YDistance:
04/06/85 NANIUCKET, NA Rwy 10: 24 Lgth: 6303	Arpt Nome: MANTUCKET (ACK) Wid: 50	Owner Name: RICHARD K. & DAWN DERRIDINGER Operator Name/DBA: NANIUCKET AIRCRFT MAIN., INC.	Acft Mfr: PIPER/PA-31-310 FAR Part: 135 SCHEDULED
Surface Type: ASPHALT Category: OTHER	Rwy Status: WET Phase: LND	Rwy Surface Character: XDistance: 3711	YDistance: L 192
05/17/85 LATROBE, PA RMY 10: 23 Lgth: 5501	Arpt Name: WESTMORELAND COUNTY (LBE) Wid: 100	Owner Name: CUMBERLAND AIRLINES Operator Name/DBA: CUMBERLAND AIRLINES	Acft Wfr: PIPER/PA-31-350 FAR Part: 135 SCHEDULED
Category: OTHER	ray Status: Wei Phase: LWD	XMY Surface Character: XDistance: *3.8M SE APT	YDistance:
05/31/85 NASHVILLE, TN Rwy ID: 20 f. Lgth: 7700 Surface Typh: CONCRETE Category: 01HER	Arpt Nome: NASHVILLE METRO (BNA) Vid: 150 Rwy Stetus: DRY Phase: 170	Owner Name: TAG Operator Name/DBA: GENERAL AVIATION, INC. Rwy Surface Character: XDistance: 100	Acft Mfr: GULFSTREAN/G-159 FAR Part: 121 SCHEDULED YDistance: 1770
06/19/85 WEST TRENTOM, MJ RWY ID: 24 Lgth: 6006 Surface Typis: CONCRETE Category: 0"HER	Arpt Wame: MERCER COUNTY (TTM) Wid: 150 Rwy Status: DRY Phase: 1/0	Owner Wame: PROVIDENCE AIRLINE CORP. Operator Name/DBA: Rwy Surface Character: XDistance: 5280	Acft Mfr: GENERAL DYNANICS/240-27 Far Part: 121 Non-Scheduled Ydistence: L2000
08/02/85 DALLAS/FT WORT, TX Rwy ID: 17 I. Lgth: 11388 Surface Typ:: CWCRETE Category: O'HER	Arpt Name: DALLAS/FORT WORTH INTL (DFW) Wid: 150 Rwy Status: WET Phase: LND	Owner Name: DELTA AIRLINES, INC. Operator Name/DBA: Rwy Surface Character: FULLY GROOVED XDistance: 6336	Acft Wfr: LOCKWEED/L-1011-385-1 FAR Part: 121 SCHEDULED YDistance: L 360
08/25/65 AUNURN, ME Rwy 10: 4 Lgth: 5000 Surface Type: ASPHALT Category: OIMER	Arpt Name: AUBURN-LEWISTON MUNI () Wid: 75 Rwy Status: Wet Phase: LND	Owner Name: BAR HARBOR AIRLINES Operator Name/DBA: Rwy Surface Character: PORGUS SMOOTH XDistance: 3246	Acft Wfr: BEECH/99 FAR Part: 135 SCHEDULED YDistance: R 441
09/06/85 MI.WAUKEE, WI Rwy ID: 19 ? Lgth: 9690 Surface Type: ASPHALT Category: OTHER	Arpt Nome: GENERAL MITCHELL FIELD (MKE) Wid: 200 Rwy Status: DRY Phase: T/O	Owner Name: MIDNEST EXPRESS AIRLINES, INC. Operator Name/DBA: Rwy Surface Character: SMOOTH FULLY GROOVED XDistance: 1320	Acft Mfr: DOUGLAS/DC-9-14 FAR Part: 121 SCHEDULED YDistance: R1040
11/01/65 BETHEL, AK Rwy ID: 18 Lgth: 6399 Surface Type: ASPHALT Category: OTHER	Arpt Name: BETHEL (BET) Wid: 150 Rwy Status: DRY Phase: 1/0	Owner Name: HERNENS AIR, INC. Operator Name/DBA: HERNENS AIR, INC. Rwy Surface Character: XDistance: 931	Acft Wfr: CESSWA/208 FAR Part: 135 SCHEDULED YDistance: R1993

:NB-110P1 NLED	782G ICHEDULED	402 VULED	JSC NJED	77-351C XVLED	L DOUGLAS/DC-9-10 XULED	EN/SA-226 XULED
Acft Mfr: EMBRAER/EMB-110Р1 FAR Part: 135 SCHEDULED YDistance: L 300	Acft Wfr: LOCKHED/382G FAR Part: 121 WON-SCHEDULED YDistance: L1599	Acft Mfr: CESSNA/C-402 FAR Part: 135 SCHEDULED YDistance: R7639	Acft Mfr: CESSNA/402C FAR Part: 135 SCHEDULED YDistance:	Acft Wfr: BOEING/707-351C FAR Part: 121 SCHEDULED YDistance:	Acft Wfr: MCDONNELL DOUGLAS/DC-9-10 FAR Part: 121 SCHEDULED YDistance: R 130	Acft Mfr: SWEARINGEN/SA-226 FAR Part: 135 SCHEDULED Whistense
Owner Wame: TITAM PARTNERS Operator Mame/DBA: SIMMONS AIRLINES Rwy Surface Character: ROUGH TEXTURE XDistance: 7920	Owner Name: TRANSAMERICA Operator Name/DBA: SOUTHERN AIR TRANSPORT Rwy Surface Character: XDistance: 7357	Owner Name: WILBUR'S FLIGHT OPERATIONS Operator Name/DBA: WILBUR'S INC. Rwy Surface Character: XDistance: 3932	Owner Name: Operator Name/DBA: BOSTOM/PROVINCETOWN AIRLINE Rwy Surface Character: XDistance: *.5M NE	Owner Name: Operator Name/DBA: BUFFALO AIRWAYS Rwy Surface Character: XDistance: *3M SW APT	Owner Name: Operator Name/DBA: CONTINENTAL AIRLINES Rwy Surface Character: XDistance: 8257	Owner Name: Operator Name/DBA: AVAIR INCORPORATED Rwy Surface Character:
Arpt Name: PHELPS-COLLINS (APN) Wid: 150 Rwy Status: UET Phase: LND	Arpt Name: KELLY AFB (KSK) Wid: 300 Rwy Status: DRY Phase: T/0	Arpt Wame: WERRILL (MRI) Wid: 100 Rwy Status: Phase: LMD	Arpt Name: () Wid: Rwy Status: Phase: LND	Arpt Name: () Wid: Rwy Status: Phase: LND	Arpt Name: () Wid: Pwy Status: Phase: T/0	Arpt Name: () Wid: Rwy Status:
03/13/86 ALPENA, NI Rwy ID: 1 Lgth: 9001 Surface Type: COMCRETE Catago y: OTMER	10/04/86 KELLY AFB, TX RNY 1D: 15 Lgth: 11550 Surfact: Type: CONCRETE Category: 0THER	04/01/87 ANCHORAGE, AK Rwy 10: 24 Lgth: 4000 Surface Type: Category: 0THER	06/12/67 HYANNIS, MA Rmy ID: Lgth: Surface Type: Category: OTHER	04/13/87 KAWSAS C1TY, MO Rwy 10: Lgth: Surface Type: Category: OTHER	11/15/87 DENVER, CO Rwy 1D: Lgth: Surface Type: Category: OTHER	12/17/87 CHANTILLY, VA Rwy ID: Lgth: Surface Type: